



"World of A1200" & "Top 100 Games" CDs FREE with every CD ROM drive!!!



EXTERNAL

Top quality drives in a top quality metal enclosure with cooling fan in built power supply and SCSI ID selector.

540MB SCSI HARD DRIVE £234.99 1GIG SCSI HARD DRIVE £314.99

2GIG SCSI HARD DRIVE £399.99

(deduct \$50,00 for uncased drive)

backed clock and a socket for an accelerator FPU.

IEARLY DOUBLES THE SPEED OF THE A1200

4MB MEMORY EXPANSION £69.99 8MB MEMORY EXPANSION £89,99

33MHZ 68882 FPU (PLCC) £29,99 or only £24.99 when purchased with above

DATAFLYER

Now includes CD ROM drivers and instructions.

The Dataflyer is a 16 bit SCSI II controller card that converts the signals on the internal IDE interface to also run SCSI

devices at the same time as the IDE hard drive

The Dataflyer SCSI+ will operate up to 5 SCSI devices such as CD-ROMS, hard drives, Syquest removable drives, tape back up drives etc. Unlike other SCSI interfaces, the Dataflyer SCSI+ is compatible with all known accelerators etc and it does not stop you from utilising any of the important expansion ports on your A1200/A600. The Dataflyer SCSI+ easily installs into the A1200/A600 (simply pushes in, no need to remove the metal shield) and provides a 25 way D connector through the blanking plate at the back of the A1200. Full instructions and software supplied.

学院馆

DATAFLYER ONLY £79.99 or £49.99 when purchsed with a SCSI device

SQUIRREL ONLY £49.99 or £39.99 when purchsed with a SCSI device

SURF SQUIRREL £89.99 or £74.99 when

purchsed with a SCSI device

LID FOR 4 WEEK

MODEMS

High Speed FAX MODEM modems are ideal for Amiga users. All modems include our FREE MODEM ACCESSORIES PACK (worth \$19.99) which includes a cable to connect the modem to the Amiga, NCOMM comms software,

Amiga Guide to Comms and a list of Bulletin Boards from which you will be able to download vast amounts of free software as well as have access to E-MAIL

MNP 2-4 Error Correction • MNP 5 Data Compression • Fax Class I and II compatible, Group 3 . Hayes Compatible • Full 80 page manual • 12 Months guarantee

14400 MODEM £69.99

33600 MODEM £109.99

NET AND WEB SOFTWARE £34.99



Discology is the ultimate in disk copying power for the Amiga. The package comprises the Discology Disk, manual and Discology cartridge for making copies of heavily protected programs with an external disk drive. Discology will also format disks, check disks for errors etc.

ANTIVIRUS

Anti Virus Professional is the most powerful tool for detecting and removing viruses. Anti Virus pro will check and device hard drives, floppy disks and even CD ROM drives for viruses. Very straight forward to use, includes a full 50 page manual.

ORDER NOW BEFORE A VIRUS

PLEASE PHONE FOR A FULL INFORMATION SHEET

£19.99 EACH OR BUY **BOTH FOR £24.99**

ALSO AVAILABLE...

CLOCK CARTRIDGE **CACHE CDFS**

EPIC ENCYCLOPEDIA

CD(full version)

£44.99

£19.99

WORLD OF A1200 CD and TOP 100 A1200 GAMES CD £7.49 EACH or FREE with every CD ROM drive!!!



Freephone 0500 340548 to place your order





ZIP DRIVES £159.99 OR £199,99 with Squirrel



CD-ROM DRIVES COMPAO DOUBLE SPEED

CD-ROM DRIVE WITH SQUIRREL

Fully featured SCSI CD-ROM drive for use with the A1210 A600. Simply connects via the PCMCIA port.

COMPAQ DOUBLE

SPEED CD-ROM with Squirrel ONLY £139.99 6 SPEED + SQUIRREL £209.99 8 SPEED + SQUIRREL £259.99

ULTRA CD-ROM DRIVE

Superb IDE CD-ROM drive system for the A1200. Fully featured, top quality drives in a top quality enclosure with built in power supply. All cables, instructions, software including CD32 emulator and audio CD player etc.,

included for immediate use. The CD-ROM interface supply plugs inside the A1200 (exceptionally easy to fit by anybody) and provides a connector in the blanking plate at the rear of the A1200, next to the mouse socket.

PLEASE PHONE FOR FURTHER DETAILS AND INFORMATION SHEET

ULTRA 4 SPEED £169.99 ULTRA 8 SPEED £199.99

MEDIAVISION RENO CD-ROM

+ SQUIRREL £114.99

Superb top quality CD ROM DRIVE complete with Squirrel for immediate use on the Amiga (A1200 or a600. Includes CD32 emulation, audio CD player etc as well as its own CD power supply, cables. etc. Can also be used as a personal audio CD player and includes

stereo headphones!

RENO CD WITH SQUIRREL £114.99

APOLLO A1200 ACCELERATORS

APOLLO 1230 LITE £99.99

68030 with MMU and FPU. Will take a 4mb or 8mb SIMM. Fully PCMCIA compatible even with 8mb!



APOLLO 1230/50 PRO £159.99

As above running at 50mhz with two SIMM sockets. Can take up to up to 64mb of RAM



APOLLO 1240/1260

68040/68060+MMU based A1200 accelerator. Features battery backed clock and a 72 pin socket for a standard 72 pin SIMM (up to 128mb). Fully featured, fan cooled trapdoor fitting accelerator.

OWER PRIG

APOLLO 1240/25

£224.99

APOLLO 1240/40

£289.99

APOLLO 1260/50

£449.99

4MB SIMM £19.99 8MB SIMM £39.99 OR 16MB SIMM £79.99 WHEN

32MB SIMM £169.99 WHEN

PURCHASED WITH AN APOLLO ACCELE (AT.)R

NEW FULLY BUFFERED INTERFACE

HARD DRIVES

2.5" HARD

DRIVES

Our high speed 2.5' IDE hard drives for the Amiga A1200 &

A600 computers come complete with fitting

cable, screws, partitioning soft-

ware, full instructions and 12 months guarantee. All drives supplied by us are formatted, partitioned and have Workbench (WB2 for the A600 and WB3 for the A1200) installed for immediate use. Fitting is incredibly simple; if you can plug the mouse into the mouse socket, you can plug the hard drive into the hard drive socket.

FREE WHILE-YOU-WAIT FITTING SERVICE FOR PER-SONAL CALLERS. PLEASE PHONE FOR APPOINT-MENT

FREE 'HOW TO FIT YOUR HARDDRIVE'

video and Stakker disk to increase the drive's

85mb £89.99

420mb

£129.99

A500/4420mb Hard Drive £209.99



No.1 FOR MAIL ORDER

No.1 FOR AMIGA IN MANCHESTER

Order NOW for immediate despatch

FREEPHONE 0500 340549

(credit/switch card sales only) for enquiries

tel: 0161 796 5279

fax: 0161 796 3208

Send cheques or postal orders (made payable to Siren Software) or credit card details to:-

SIREN SOFTWARE, 178 BURY NEW RD, WHITEFIELD. MANCHESTER M45 6QF, **ENGLAND**

Access, Visa, Switch, Delta, Connect etc accepted

OPEN:

Monday to Friday 9am to 6pm Saturday 9am to 12pm Personal callers welcome.

Please phone first to check availability of any item.

DIRECTIONS:

From the M62 Junction 17 head towards Bury. We are 50 yards on the right hand side after the third set of lights. The door to our premises is next to the florists opposite the Masons Pub.

will be charged at £3.50 per order (U.V.), £7.50 Europe and £12.50 rest of the world

ontents

AMIGA ACTION



ACTION NEWS

66

The times they are a-changing.. Hugh Poynton takes a look at the latest developments in Amiga gaming.

THE CHAOS ENGINE 2 6

Hippy Hugh gets leathered by the opposition in The Bitmap Brothers' long awaited sequel, The Chaos Engine 2



BOGRATS

69

You are a slimy toad with hideous offspring. Sorry, not an insult, a summary of Vulcan's latest arcade puzzler

VULCANIC ACTIVITY 74

Vulcan director Paul Carrington talks to Action about what the future holds for Amiga games and gamers alike

EURO CHAMP MANGER 78

Hugh Poynton tries his hand at managing AC Milan and Barcelona in Manyk's new football management title

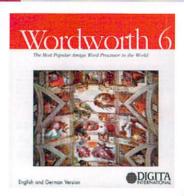
University Challenge 80

Hugh Poynton tries his hand at managing AC Milan and Barcelona in Manyk's new football management title

GUILDHALL GOODIES 8

We 'retro-review' the first four Guildhall releases of classic Microprose games

REVIEWS



Wordsworth 6

21

It's the new edition of the powerful word processing package – but how different is it?



PERSONAL PAINT 7 26

Gareth Lofthouse looks at Cloanto's update to its acclaimed paint package

TURBOCALC4

52

Neil Mohr reviews the latest version of Digita's spreadsheet program



PREMIER PACKARD

54

58

Hugh Poynton takes a look at Hewlett Packard's impressive new budget printer – the 5L.

SECAL

A new Amiga programming language is revealed. We see how it compares



EATURES

C COMPILER

24

Paul Overaa continues his series introducing 'C' for beginners



HTML FOR ALL.

30

Why everyone should take an interest in Hyper Text Mark-Up Language



AT YOUR SERVICE

56

Tina Hackett takes a look at how Amiga users fair when it comes to choosing an Internet Service Provider

COVERDISKS

XTREME RACING

Xtreme Racing - Awarded 90% AC97

Here it is - the full game of Guildhall's finest racer and it's exclusive to Amiga Computing







EGULARS

NEWS

We have a special report on who is next in line to buy the Amiga plus news of another staff departure at VIScorp

US NEWS.

14

The latest happenings from the States brought to you by Katherine Nelson

LETTERS

39

Ezra Surf takes a look at your letters from dream Amigas to Cybercafes

ACAS

43

Help at hand for all your tricky techie problems

PUBLIC SECTOR

60

Old Davey Boy Cusick brings you a roundup of some of the best and worst PD he's seen in his time as PD-Meister



MIGA GUIDE



Neil Mohr explores basic CLI command parameters, other things

88

among



Larry Hickmott reveals how to make the most out of the structured drawing program, DrawStudio

94



Paul Overaa continues with his handy hints on Gadtool menus



Paul Overaa talks about the benefits for musicians connected to the Net

no further...



96



Phil South gives more hints and tips in his on-going AMOS series





Dave Cusick discusses the legal wrangle that could bring the Web to its knees

Want to know how ARexx

routines can be used for

calendar calculations? Look



OVER STORY

MULTIMEDIA MADNESS-

32

Amiga Computing reveal why the Amiga still holds the crown of Multimedia



BARGAINS

The **BEST** reader offers! Amiga Computing brings you money saving deals from Guildhall, **Audiogenic** and LH Publishing



Get your Photogenics coverdisks at the ready and learn all about composition

or a few years now VIScorp have made their intentions clear. They wanted to create a set-top box. They also had the technology to do it and a licensing deal with Amiga Technologies would allow them to do it. Then the first glitch in the plan happened. ESCOM - then owners of AT - went bust and VIScorp fearing for their project tried to buy the whole of Amiga Technologies.

We were told that the acquisition was under way and it was only a matter of weeks before the deal would be completed. That was back in April when a 'Letter of Understanding' was signed between the two companies. It is now November and it has been revealed that VIScorp could now face challengers to their bid - apparently ESCOM's bankruptcy made matters more complicated than anticipated and so the deal still remains up in the air. If VIScorp lose their bid, who knows where this will leave the future of

What is clear is that in the time that has elapsed, there have been many other companies who have had their eye on an emerging set-top market. US company Diba, for example, have plans to launch a set-top box and are looking for partnerships with companies such as BT and Pipex. Italian firm Olivetti also have something called Envision which even has a wireless keyboard for the true couch potato. This turns a TV into a PC however, the price for such a machine will be around £1,400 for the cheaper model.

This is a pricey option for the average family and perhaps doesn't pose much of a threat to what VIScorp are setting out to do and the market they are aiming for. However, Philips are also continuing the trend of lowcost Internet solutions-they plan to launch a £99 system for the CD-I.

And while all this has been going on, what about the long-time Amiga fans? Ever since Commodore went bust, it seems we've had nothing but empty promises from one month to the next. VIScorp heralded a new era of hope - they weren't the huge faceless PC company ESCOM were. They had long connections with the Amiga. Although many were concerned they would simply rip out the structure of the Amiga to be used in their set-top systems and neglect the Amiga mar-





VIScorp's set-top box - an excellent concept but needs to he released soon

What Next For Amiga

Tina Hackett asks if the 'Curse of the Amiga' has struck again?

ket as a whole, talk of new projects on the horizon sparked a ray of hope in many of us.

But now what is the Amiga community to think? It doesn't help matters that there are reports that VIScorp have financial troubles and that two of VIScorp's key staff walked out recently. And now we hear that there are other companies after the Amiga, so the wait continues.

This is the worst thing that could happen right now - more uncertainty and waiting for something to happen. Even the most loyal users will lose hope - their patience has

been tested to the limits as it is. While the acquisition still goes on VIScorp could be in danger of losing support from the Amiga community and falling behind in the race to get a set-top box out onto the market.

At any rate by the time you read this, who knows? We could have another proud new owner promising great things and telling us what we want to hear...

Una Hackett

Tina Hackett, Editor

EDITOR Tina Hackett

DEPUTY EDITOR Neil Mohr

ART EDITOR Graham Parry

Tym Leckey, James Eagers PRODUCTION EDITORS Justine Bowden,

Alan McLachlan

STAFF WRITER Hugh Poynton

REGULAR CONTRIBUTORS Dave Cusick

Katherine Nelson

Paul Overaa

Phil South

CONTRIBUTING EDITOR Gareth Lofthouse AD SALES Sue Horsefield

AD PRODUCTION Barbara Newall

MARKETING MANAGER Steve Tagger

PRODUCTION MANAGER Alan Capper DATABASE MANAGER Victoria Quinn Harkin List Rental Enquiries

0171 831 9252

CIRCULATION DIRECTOR David Wren

DISTRIBUTION COMAG (01895) 444055

MANAGING DIRECTOR Ian Bloomfield

SUBSCRIPTION 0151-357 2961

Member of the Audit Bureau of Circulations



22,051

Jan-Jun 1996

Published by IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP Tel: 01625 878888 , Fax: 01625 879966

EMail contacts:

Editorial edit@acomp.demon.co.uk Advertising ads@acomp.demon.co.uk

We regret Amiga Computing cannot offer technical help on a personal basis either by phone or in writing. All reader enquries should be submitted to the address in this panel.

Amiga Computing is an independent publication and VIScorp is not responsible for any of the articles in this issue or for any of the opinions expressed.

©1996 IDG Media . No material may be reproduced in whole or in part without written permission. While every care is taken, the publishers cannot be held legally reponsible for any errors in articles, listings or advertisements.

All prices listed in the editorial content of this magazine are inclusive of VAT unless stated

12 issue subscription £49.99 (UK), £69.99 (EEC) £84.99 (World) Ongoing quarterly direct debit: £10.99 (UK only)

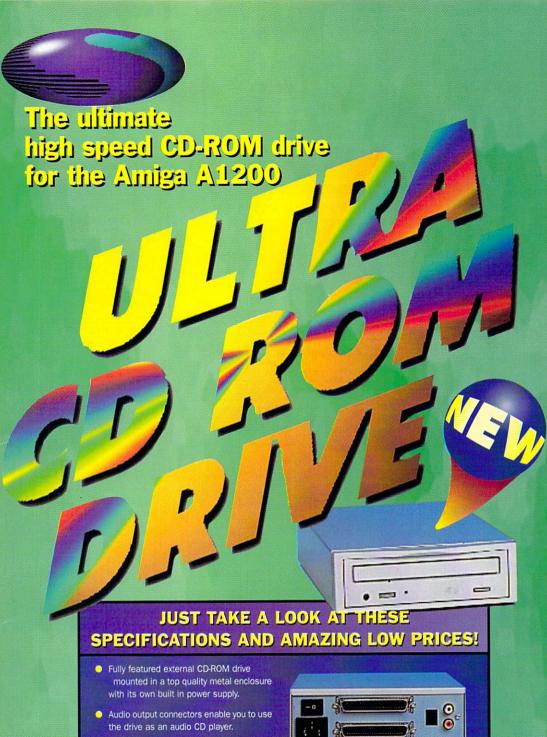
Printed and bound by Duncan Webb Offset



US Readers - Amiga Computing (ISSN 0959-9630) is published monthly by IDG Media. England, a subsidiary of the IDG Corp. Periodical postage paid pending at Boston, MA and additional mailing offices. Send enquiries to: IDG Macclesfield.

US yearly subscription rate: USA Gold \$70, USA Standard \$40

For eight years Amiga Computing has been the leading magazine for Amiga enthusiasts, Amiga Computing promises to inform, educate and entertain its readers each month with the most dedicated coverage of the Amiga available



- Easy fit internally fitting interface simply plugs in to ensure full compatibility with all accelerators, memory expansions etc.
- Does not use or interfere with the PCMCIA slot or any other port.
- Includes CD-ROM installation software.
- CD32 Emulation enables the majority of CD32 titles to be used on the A1200.
- Audio CD player software allows you to play your audio CDs.
- Unlike most other CD ROM drive systems the Ultra CD ROM drive does not cause long delays when booting up.



The interface simply plugs onto the 44 pin IDE connector inside the computer (still allows a 2.5" or 3.5" internal hard drive to be used as well!) and provides a connector in the blanking plate at the rear of the A1200 next to the mouse socket. This can be installed by anyone in 5 minutes!

All cables, instructions, interface, etc., included as well as a 12 month warranty and full technical support.

ULTRA 4 SPEED £169.99 ULTRA 8 SPEED £199.99





No.1 FOR MAIL ORDER

No.1 FOR AMIGA IN MANCHESTER

Order NOW for immediate despatch

FREEPHONE 0500 34054

(credit/switch card sales only) for enquiries

tel: 0161 796 5279

fax: 0161 796 3208

Send cheques or postal orders (made payable to Siren Software) or credit card details to:-

SIREN SOFTWARE, 178 BURY NEW RD. WHITEFIELD, MANCHESTER M45 6QF, **ENGLAND**

Access, Visa, Switch, Delta, Connect etc accepted

OPEN:

Monday to Friday 9am to 6pm Saturday 9am to 12pm Personal callers welcome. Please phone first to check availability of any item.

DIRECTIONS:

From the M62 Junction 17 head towards Bury. We are 50 yards on the right hand side after the third set of lights. The door to our premises is next to the florists opposite the Masons Pub.

All prices include VAT. Postage and packing will be charged at £3.50 per order (U.K.), £7.50 Europe and £12.50 rest of the world.



LOW COST DELIVERY **2-4** Week Days

Next Week Day OSaturday Delivery

SHOWROOM ADDRESS: Lombaro Finance FIRST COMPUTER CENTRE, Finance DEPT. AC, UNIT 3, ARMLEY PARK COURT, STANNINGLEY RD, LEEDS, LS12 2AE.







36 USF QWROC 出世版 H m EN 7 DAYS A WEEL C:0113-23

This merges with the ASI (bypassing town centre) which meets Armier pratory.

BBS:0113-231-1422

E-Mail: sales@firstcom.demon.co.uk WEB: www.firstcom.demon.co.uk

Hardware

Amiga A1200 **MagicPack**

ocludes, Wordworth V4SE, Datastor Organiser, Turbocalc 3.5, Personal Paint V6.4, Photogenics 1.2SE, Pinball Mania & Whizz.

Very Limited Stocks Available, Early

Purchase Recommended



Amiga A1200 **Magic Pack** Inc. I 70Mb HD cala MM300

AMICA M1438S Monitor Only!! *£259.99 When bought

First Starter Pack

- Al 200 dust cover
- 10 x DSDD disks + labels All
- Top quality joystick for only
- Deluxe mouse mat 3 x A1200 games £19.99

PRIMA

The Prima ATOM PSU £69.99

The Amiga's Standard
PSU cannot support extra
heavy power consuming
peripherals, eg. RAM/
Accelerator boards & Disk
Drives. Over loading the
PSU often leads to the
Amiga crashing.

Ultra CD ROM Drives

4 X £169.99

8 X £199.99 10 X £219.99

Kit No Drive £119.99

Quick & Easy to install, fits via the Internal IDE not interfere with existing H.D.

External SCSI CD ROM Drive

Dual/Quad SCSI CD ROM

Quality Toshiba Drive

Own Internal PSU 17W

Fast SCSI Transfer Rates 12 Month Warranty

£139.99 4 X Speed

Hi-Soft SMD-100 VideoCD MPEG Decoder

Only!! £195.99

Req. VideoCD compatible SCSI CD Rom. Video CD's all £14.99

Internal SCSI CD ROM Drives anyo CD254Vx4Speed £89.99 oshiba 3701Bx6.7 Speed £175.99

lextorPX-12TSIx12Speed £239.99

SCSI Controllers

GVP 4008+/Oktagon SCSI £99.99
Big box Amiga eg. A2000/A000 SCSI Controllers
Squirrel/Surf Squirrel £45.00/£75.00
When purchased with a CD ROM Drive or Modern.

3.5" Hard Disk Drives IDE SCSI

1.08Gig.£152.99 1.08Gig.£235 2.1 Gig... £249.99 2.1 Gig... £345.9 3.2Gig...£299.994.3Gig....£797.9

SCSI Hard Drive

- SCSI case with built in PSU £69.9
- SCSI Hard Drive, Se SCSI Squirrel Interface £45.00
- 12 Month Warranty

High Quality 200 Watt PSU. Colour Co-Ordinated Casing. 4 x The Power of Std. Amiga PSU 12 Month Warranty.

Hard

540Mb...£117.99 270Mb....£99.9 850Mb..£120.99 540Mb...£149.9

Build Your Own

3.5" H.Drive install kit £18.99

and instructions Seagate CONNER 80Mb.....£79.99130Mb.£99.99

2.5" Hard Drives for A600/ Al 200 with installation kit

inc. software, screws, cables

170Mb.£104.99250Mb.£119.99 340Mb.£119.99540Mb.£149.99 810Mb.£189.991.0Gig.£229.99

Includes set up software, cables and full instructions, no Hard Drive.

Monitors



Multi-Sync Monitors 14" 1438s....£269.99 uilt In Stereo Speakers

1764.....£579.99 17" 1701.....£529.99



Amiga Ext. drive £44.9

Amitek I.76Mb drive £69.9 A 1 200/600 int. drive £39.9 A500/500+Int. drive

Squirrel I/face



Autobooting HD

from *£79.99

Squirrel Sessi SCSI-II interface

- Personal Voice Mail
- Fax on Demand Call Discrimination
- BABT Approved
 4,400 Data/14,400 Fax ,600 Data/14,400 Fax



Amiga SurfWare software pack

he complete software suit for all your Modem needs. Net Software Web Browser

E-mail •IRC....Only

Also Includes: £29.99 Also Includes:- £29.99
30 Days Free Trial with Demon

GP Fax Software.....only £44.99
ull Send and Receive Fax Software for Amiga
Computers with a Fax/Data Modem.

£222.99

Modems **Robotics**

Modem

33.6 Baud Rate Class | Fax BABT & CE approved. Only...£119.99

plete with cables & Amiga N-comm Software

V32Bis 14,400 Fax Modem £49,99 V22Bis 2400/9600 Modem £24.99 Amiga SurfWare bundle when purchased with any Modem only...£ 19.99

Modem Accessories Phone Line Extension Cables. .99 10M. £8.99 15M.£10 Dual Socket Adaptor.....£6.

Expansion/Accelerators

A1200 I MB RAM

A1200 2 MB RAM A1200 4 MB RAM

A1200 8 MB RAM

A I 200 I MB/33 Mhz Co Pro

A I 200 2 MB/33 Mhz Co Pro A I 200 4 MB/33 Mhz Co Pro A I 200 8 MB/33 Mhz Co Pro

MASSIVE PRICE REDUCTIONS

2 Mb 72 Pin SIMM 4 Mb 72 Pin SIMM 8 Mb 72 Pin SIMM

I Mb 30 pin SIMM 256x4 DRAM

A1200 RAM Expansion

£100.9

£14.99

16 Mb 72 pin SIMM

£35.99 £89.99 £13.99 (each)£4.99

£19.99

Viper II-33 to 128Mb RAM, FPU socket & R/T Clock Blizzard 1230-50Mhz £169.99

Up to 128Mb RAM, FPU Socket & R/T clock Blizzard 1260-50 £579.99 Up to 64Mb RAM, MMU & FPU & R/T Clock

Blizzard SCSI Module £89.99 68882-33Mhz PLCC£34.99 68882-50Mhz PGA £99.99

500/600 RAM Expansion

A500512kRAMnoclock £19.99 A500+ I Mb RAM £29.99 A600 I Mb RAM no clock £29.99

Part exchange available on your old memory.

Printers

Canon BI30 £159.99 Portable mono printer, 30 page ASF built in. Canon BJC70Colour £185.99 Portable colour printer, 30 page ASF.
Canon B1240 £190.99

High quality col./fast mono print Canon BJC4200Col. £254.99 New ver. with Photo Realism cart. option Canon BJC4550Col. £369.99 inter with Photo Realism cart. option on BJC620 Colour£348.99

ur printer, 720x720dpi non BIC4100Col.



£79.99 ASF built in, push to Star SJ 144col £139.99

4p/p/m 600 dpi HP 6P Laser printer 8 p/p/m 600 dpi Oki 4w Laser printer

CITIZEN

Stylus 200 £139.99 All Citizen printers have a 2 year

ABC Colour printer £129.99 Stylus 200 Colour Up
Simple (as easy as ABC) to use 24 pin printer.
Comes as standard with 50 sheet Auto sheet
feeder. Tractor feed optional at £14.91
Stylus 500 Colour
Stylus 500 Colour £164.99 Stylus 500 Colour £164.99 720 dpi, 4ppm Black, 2ppm Colour ter, 170 sheet Stylus Pro £249.99 Citizen Projet IIc Citizen Projet IIC 164.99 720 dpl. 4ppm Black, 2ppm Color 1004.00 dpl. Colour Inside Printer, 70 sheet Stylus Pro Auto Sheet Feeder, IPP Deskjet emulation. Stylus Pro Citizen Printiva 600C 4376.997 2072 dpl. Photo-Real quality of Citizen Printiva 600C 4376.997 2072 dpl. Photo-Real quality of Citizen Printiva 600C 4376.997 2072 dpl. Photo-Real quality of Citizen Printiva 600 500 dpl. Colour, Supports Metallia colours, 2 Year Warrary.

£369.99

£611.99

HEWLETT® PACKARD

£154.99 HP660Col £229.99 HP 690 Colour pri £254.99 600 x 300 dpi colour p HP870 Colour £395.99 600x600 dpi up to 6 p/p/m mor HP 5L Laser printer

720 dpi, 2.5ppm £179.99

£386 99 £339.99 try level A4 Colur Flatbed Scanner oson GT-8500 Scanner

£479.99 nter Switch Box 2 way nter Switch Box 3 way nter Stands (Universal) Metre printer cable

Studio 2 Ne £49.99 or £44.99 when

Consumables

Ribbons Citizen Swift/ABC m

Citizen Swift/ABC colour

Star LC240 mono Star LC24-10/200/300 Colour Re-Ink Spray for mono ribbons & PREMIER-INK Cartridge Refills

Save a fortune in running costs with your ink/bubble jet. Compatible with the HP Deskjet series, Canon BJ10/20/80/130/20/30/130, Star SJ48, Citizen Projet and many

Ink Cartridges

Ink/bushDeskjet series, CamDeskjet series, Cam-

Bulk DSDD

10 x £3.49 100 x £26.99 30 x £9.99 200 x £49 99 50 x £14.99 500 x £114.99 **Branded DSDD** 100 x £41.99

30 x £13.99 200 x £76.99 50 x £21.99 500 x £175.99 **Bulk DSHD**

10 x £3.99 100 x £29.99 30×£10.99 50×£16.99 200 x £55.99 500 x £129.99

Branded DSHD

10 x £5.99 100 x £44.99 200 x £82.99 500 x £189.99 30 x £15.99 50 x £23.99

Disk labels x500 £6.99

£9.99 Disk labels x 1000 £9.99





Genlock 292

£264.99

Fusion Genlock

A-Cut

£99.99

Genlocks

£639.99

Home Office



Twist 2 £74.99

Graphics

New!! Epson GT-5000

Epson GT-8500 £479.99

Epson GT-9500

Epson Flatbed Scanner

Software & Cable...£49.99

£339.99

£694.99

Relational Database
Requires Workbench 2.1 or above & 2Mb of memory



TurboCalc 4 £49.99

Directory

Opus 5.5 £45.99

£39.99 Wordworth 6 Office CD £49.99

Wordworth 6 CD

Integrated Package Mini Office

make

2Mb of Ram and 1 Floppy Drive, Hard Drive installable if desired.

£39.99

£46.99



Final Data £39.99

Other Titles Available Disk Magic 2 £34.99 Maxon Magic £26.99 Devpac 3 £63.99 Net & Web £71.99 Gamesmith £79.99 Termite £31.99 Termite TCP £47.99 Hisoft BASIC 2 £63.99 Lightwave3D£429.99 Hisoft C++ £149.99 High Speed Pascal £69.99 Quarterback Disk Suite £34.99 GB Route Plus & GB Route Edit £29.9

7Bit & LSD Vol.3

17Bit & LSD Vol.3 17Bit Collection 17Bit Continuation 17Bit Phase 4 17Bit 5th Dimension 3000 JPEG Textures 3D Images

3D Images 68.99
3D Objects 68.99
AGA Experience | NFA£12.9

AGA Experience I NFA612.99
AGA Experience NFA612.99
Amiga Developers CD£12.99
Amiga Repair Kit
213.99
AmiNet 8
412.99
AmiNet 13
412.99
AmiNet 14
412.99
AmiNet 15
412.99
AmiNet 15
412.99
AmiNet 16
AmiNet 16
AmiNet 17
AmiNet 18
AmiNet 5et 1
AmiNet Set 2
AmiNet Set 3
AmiNet Set 3
AmiNet Set 3

AmiNet Set 1 AmiNet Set 3 Arcade Classics Plus Artworx Assassins 2 C64 Games v1.1 C64 Sensations v2 CAM

Card Games CD CD-PD I CD-PD 2 CD-PD 3

CD-PD 3
Colour Library
Dem Rom
Dem Collection v1
Emulators Unlimited
Encounters
Epic Collection 2
Epic Int. Encyclopedia
Eric Schwartz CD
Euro CD v1
EL Licenseware

Graphics Software

New Photogenics 2 CD

Photogenics

Cinema4D Ver 3

£169.99

Amiga Ray-Tracing software

Req. 3Mb of RAM, and Kickstart 2 or higher.

SCALA Scala MM400

Special Offers

X-CAD 2000.....£19.99 Vista Pro Lite.....£4.99

Full version, with Manuals. Blitz Basic 2.1....£29.99

£279.99

Recommended, 6Mb of RAM, Kickstart 3.0 or higher. & Hard Disk.

Graphics Manipulation

only!! £89.99

1

-

Amiga-CD32 Serial Network cab. £24.99 Amiga Parnet Parallel Network £14.99 Modem Cable 9-25/25-25 £9.99 Null Modem Cable £9.99 Amiga-VGA Monitor £12.99 Amiga-TV Cable £2.49 Amiga-CM8833 Monitor £9.99 Amiga-Scart Cable £9.99 Printer Cable (1.8 metre) £4.99 £14.99 Disk Drive/Monitor Ext. Analogue PC J.stick Adapt. £7.99 Mouse/Joystick Extension £4.99 Mouse/Joystick Autoswitch £9.99 £9.99 MIDI Cables (3 metre x2) Centronics-Centronics £9.99 SCSI D25-50 way Cent. £11.99 SCSI D25-50 way Micro-D £15.99 SCSI Adaptors from.. SCSI Terminators from... £19.99 Internal SCSI Cables from.. £9.99 2.5" IDE Hard Drive Cable £5.99 Amiga-3.5" Hard Drive £18.99

Custom Cable Suppliers

Peripherals



Wizard 560-dpi Amiga Mouse £12.99

Alfa Data 400-dpi Mega Mouse

Great value only.. £27.99

AURA 16/8

£74.99/£29.99

Octamed compatible

PCMCIA samplers

ProMIDI

Interface

• 2 x 3metre MIDI cables £9.99

OctamedSound Studio

version of the best making program for the Amiga. £22.99

only!! £19.99



3 Button Mega Mouse Plus £12.99 Amiga Modulator

Mousemat 4mm £9.99 Zip Stick joystick Gravis Amiga joystick £19.99 Roboshift mouse/joystick switch £9.99 Amiga Contol Pad £9.99 £24.99 Kickstart 2.04/2.05 £18.99 CIA 8520A I/O chip FPU 25mhz PLCC £34.99 FPU 33mhz PLCC



AlfaData Crystal Trackball Only...£34.99

Amiga PSU £34.99



Zydec Speakers ZyFi-2....£26.99

£34.99



Heavy Duty PSU £69.99

lock Cart.



TurboTech Real-Time Clock Cartridge £14.99

ista Lite-3



Vista Pro Lite Requires 2Mb of Ram & Hard Disk With Kickstart 2.04 or above

Limited Offer

Amiga

1078 Weird Textures £12.99 17Bit & LSD Vol. 1 £17.99 17Bit & LSD Vol.2 £17.99 Amiga Developers CD Ver I.I £12.99 for the Amiga. From Amiga Technologies comes the comp
Amiga Developers Tools and Documentation.

New!! Geek Gadgets CD £17.99
Geek Gadgets contains all the of the tools you need
to get started programming on the Amiga

Buy Weird Science Network 2 CD & CD-32, Serial Network Cable.

EPIC M/M Encyclopedia £25.

New!! Women of the Web £20.99 Over 450Megs of information on over 250 of the worlds most beautiful women.

Contains No Nudidty

New!! Magic Publisher 4 CD set £3 Inc. Wordworth 4 TD, Final Writer 4 SE, 10,000 Fonts and 5,000 Clips and more.

Sounds Terrific 2 & Octamed 6 Two terrific titles bundled together to purfectly compliment each other Both titles for only......£18.99

Octamed Sounds Studio CD £22.99 Totally revamped new version of this top selling CD, includes endless new and improved features.

New!! AmiNet 16 -Now Available

coop Purchase!! Insight Dinosaurs Designed for the CD32/CD-TV but usable on any Amiga with CD. Now Only £4.9

Ideal Xmas Gift!!

Guinness Disc of Records £17.99 CD Version of the ever-popular fact filled book.

y £1.50 pertitle or £3.99 for 4+ Graphics Sensations 1 £17.9 Guinness Disc of Records£17 Horror Sensations (18) Illusions in 3D Image PD CD Into-the-Net Insight Dinosau Learning Curve Hottest 6 Insight Dinosaur Learning Curve Light ROM 4 Light ROM Gold Magic Publisher Magic WB Enhancer Network CD 2 Network CD 2 (12.99
Nothing but Tetris (9.99
Nothing but Tetris (9.99
Octamed Sound StudioLiV)
Oh Yes More Worms (8.99
Photogenics 2 (8.99
Pov-Roy (22.99
Prima Shareware vl (17.99
Sciene Storn (17.99
Sciene Storn (17.99
Sciene Storn (17.99 Sound FX Sensation Sound EX Sensation 5
Sound Library 6
Source Code 5
Source Code 5
Space & Astronomy 6
Speccy 96 Sensations 6
Special FX Vol. 1
Special FX Vol. 1
The Personal Suite 6 Utilities 2 (PDSoft) Utilities Experience Weird Sc. AMOS PD World Atla

Euro CD v1 F1 Licenseware Fractal Universe Gamers Delight 2 Gateway GIF Sensations 2 Giga Graphics Global Amiga Evn FREE!! Prima Shareware CD-ROM worth £10 with every order of CD-ROM software over £30



VIScorp AT withdrawn by Gareth Lofthouse

IScorp, the maker of Amiga set top boxes, has cancelled an offer of \$20 million for the acquisition of Amiga assets from the bankrupt German PC company, Escom. Growing financial problems mean the Chicago-based company may be unable to go through with the buy-out of Amiga Technologies it was expected to complete last October.

The company, which plans to continue the development of the Amiga computer range, decided to let its offer expire on 2 October 1996. VIScorp cancelled because it believes the assets are no longer worth the \$20 million it was originally offering.

"One of the most valuable pieces of inventory is currently encumbered in a complicated legal challenge to the ESCOM AG bankruptcy estate. Without the assurance that this piece could be delivered as part of the package deal, VIScorp began to reconsider its offer," said Hugh Jencks, VIScorp's chief operating officer.

Mr Jencks said that VIScorp remains interested in completing the acquisition of the Amiga, and that following the expiry of the original offer the company submitted a lower bid. VIScorp say its plans for introducing an interactive television product depend on both the Amiga technology and the support of the installed base of Amiga users.

Although the contract expired on October 2, VIScorp continued to operate Amiga Technologies until October 31 at its own expense and with the concurrence of the Trustee. It did so believing that Amiga Technologies was of more value as an operating company, and it wanted to retain its value. During this time company paid Amiga Technologies' salaries and generated over \$2 million in sales which have been credited against the final

VIScorp's future is threatened, however, by

Financially troubled company allows acquisition contract

to lapse

financial insecurity. In a document filed at the US Securities and Exchange Commission on October 30, the company admitted that it "cannot currently generate sufficient revenues and cash flow from operation to meet its business obligations."

These financial problems, combined with the fact that the company has run at a loss since its inception, mean that VIScorp's business requires funding to continue development of its set top box products. However, the Commission file warns that investment in VIScorp is 'highly speculative' and that there is 'doubt as to whether the company can continue as a going concern.'

VIScorp's chairman claims that funding arrangements are currently in process, though how much the company requires remains unspecified.

David Robinson, the lawyer overseeing the ESCOM liquidation process has stated that VIScorp is no longer the leading candidate for the acquisition of the Amiga assets. If the company fails to acquire the Amiga, it is uncertain as to whether it will be able to base its

set top boxes on Amiga technology.

To date VIScorp has used this technology to develop ED, a set top box, under licence from ESCOM. However, Robinson claims that if VIScorp fails to acquire the Amiga assets the licence will be cancelled. If that happens, VIScorp hopes any new owner of Amiga Technologies will be willing to relicense it to allow

it to continue to produce ED as planned. David Rosen, who has

replaced Jason Compton as communications manager, declined to comment on the effect the company's financial situation will have on their production plans for ED.

VIScorp were planning to introduce ED as an Internet-TV device in early

1997.

AMIGA COMPUTING FEBRUARY 1997

QUIKPAK LEADS BUY-OUT RACE

Following VIScorp's decision to lower its bid for Amiga Technologies, QuikPak, the Canadian-based Amiga manufacturer, is now rumoured to be the company most likely to acquire the Amiga assets.

Quikpak, with head-quarters in Toronto, is the current North American distributor for Amiga Technologies and the only authorised manufacturer of Amiga computers in North America. The company had hoped to finalise a deal with the liquidators on December 13, but at the time of going to press the deal had not been completed.

"QuikPak is currently involved in negotiations with the liquidators, but at the moment nothing is

finalised," said Dan Robinson, the company's director of business development for Amiga. The company was unable to outline the nature of its negotiations more specifically at the time of writing.

However, Mr Robinson pointed out that QuikPak has numerous reasons for

wishing to acquire the Amiga technology. "I feel that you can read a lot into our actions. We've been developing the A5050T and A4060L, as well as producing '060 accelerators for the Amiga,' he commented.

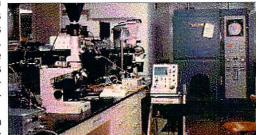
"We are advertising aggressively in the North American publication *Amazing Computing*, and had a large presence at the recent Amiga Fest show in Toronto. Clearly Quikpak believes there is a strong future for this platform," he added.

The A5050T and A4060L are new Amiga machines based on the 4000T that QuikPak currently have in development. The company has also been shipping '060 4000Ts for about \$2700, while prices for standard

4000T have dropped below \$2000.

QuikPak took the Amiga's distribution for North America over from Service Management Group, after Amiga Technologies terminated SMG's contract.

By Gareth Lofthouse



QuikPak's factory based in Toronto

VISCORP ASKS FOR INJUNCTION

A San Jose court has issued a preliminary injunction against the source of Curtis Mathes Holding Corp's Uniview interactive television device, prohibiting further use of proprietary technology developed by VIScorp.

A recent announcement from VIScorp said that it had filed a complaint against Interactive Video Publishing saying that it misappropriated its trade secrets and technology and licensed this to Curtis Mathes. Interactive Video Publishing, Steve Owens, Kaori Kuwata, David Owens and "all those in active concert or participation with them" were enjoined from using any of VIScorp's trade secrets or technology.

As yet no date for the trial has been set. However, the court found that VIScorp "will probably succeed on the merits of its claim that defendants used improper means to acquire VIScorp software trade secrets, and, therefore have misappropriated VIScorp trade secrets."

The company expressed concern in early December when it discovered that the intellectual property was being pirated by both small and larger companies and, to deal with this, it teamed up with Mahr Leonard Management Company, a Texas firm specialising in patent infringement.

COMPTON QUITS VISCORP

Only weeks after the dramatic departure of Carl Sassenrath from VIScorp, it has emerged that another key member of staff, Jason Compton, has also resigned. However unlike his former colleague, Compton, who was VIScorp's communications manager, has said little publicly about his reasons for leaving.

He told Amiga Computing, "The details are between myself and VIScorp but basically I was not comfortable with the present work environment and did not feel I was adequately equipped to perform my duties as an independent contractor."

Sassenrath was more vocal about his explanation for leaving the company and he posted an announcement to a newsgroup saying that he'd "never seen such an idiotic, screwed-up, incompetent company." He has now followed this up with a statement of his intentions for the future

Unhappy with the state of the PC market, he intends to build a system that is simple to use. He remarked, "The software is to blame. We have become enslaved by overly complex and twisted software...They are all junk - the work of designers who really don't understand how our minds work or relate to our human condition." He encourages the Amiga community to "hold on, regardless of how desperate the situation may seem."



GRAB SOME

Ocean's budget label, Hit Squad, has launched a special bargain offer in conjunction with toy retailer, Beatties - gamers will be able to buy one title and get another free. Among the Amiga titles are Worms, Desert Strike, Populous 2 and Desert Strike - if any of these are purchased you can choose either Player Manager 2, Cannon Fodder or Fantasy Manager for free.

SAINT SAMSUNG

Samsung is supporting the international cause of human rights by donating equipment to the United Nations Centre for Human Rights in Geneva. Along with the Government of The Republic of Korea, the company has donated £304,500 worth of computer equipment and support to help the UN centre's computerisation project.

DIRECT

Net Direct has become the most recent British ISP to introduce the US Robotics high speed x2 modem. The modem's Internet connection speed of 56 Kbps is almost twice as fast as the connection speeds currently available over ordinary telephone lines.

So far, 40 ISPs across the world have agreed to participate in field trials of the new modem.

AURORA LAUNCHES

A new Canadian company has been set up which claims to be 'dedicated to advancing the Amiga platform'. It is mainly concentrating on games development with a focus on using 'retargetable graphic standards, such as CyberGraphx, and accelerators, such as 060 boards and the PowerPC technology, along with the AmigaOS to create games that are system friendly in a multi-tasking environment". See this month's games news for details on some of its forthcoming releases. Information is also available from its web site which is at (http://www.auroraworks.com).



Aurora intends to advance the Amiga platform

N O V E M B E R C H A R T S

GTI, the Amiga mail order company, has revealed its November chart for software sales. Topping the utilities chart is Turbo Print Prof 5.0, closely followed by I-Browse and Personal Paint 6.4. As for the Amiga CD Rom chart, Aminet 15, Meeting Pearls 4 and Aminet set 3 take the three top spots. On the games front Click Boom's Capital Punishment, proves the most popular, closely followed by Worms and Hugo.

BAH HUMBUG

If Christmas left you with a good dose of the Ebeneezer Scrooge, you're probably not alone. To join like-minded Christmas cynics, type in to your browser http://www.esrc.ac.uk and go to the Economic and Social Research Council home page. Here you can find out why turkey is less popular than it used to be and also what has caused Shopoholics to lose their Christmas spirit - apparently shopping addicts do it either out of revenge or because they are unhappy with their relationships. Hmm..



Christmas cynics can revel in the festive facts on shopping and turkey

CASH CONUNDRUMS

Following the requests of many of our US readers, we are now including a Money Conversion Chart. As many of our prices are written in pounds this will hopefully help out readers who want to get an idea on how much this equals in US dollars. Please remember these are only approximates and will depend on the exchange rate at the time. You can get a regular update from Xenon Labs currency converter (http://www.xe.net/currency/)

Where possible we will also try to include a suppliers US phone number or an Email address to save you making long-distance calls.

Approximate Exchange Rates as at December 9		
UK Pounds	US Dollars	
£1	\$1.65	
£5	\$8.24	
£20	\$32.94	
£50	\$82.36	
£100	\$164.71	
£200	\$329.42	
£500	\$823.56	

B TA MOVIE WEB

The British Tourist Authority launched its Internet Movie Map of Britain web site. It is based on the hugely successful BTA leaflet and offers visitors an impressive amount of information on film and TV locations around the UK.

You can search for television programmes and films by name, location or tour and even includes a journey planner so you can obtain detailed and accurate directions to the site. Taking up 300 pages, the Movie Map offers a vastly larger amount of information than the leaflet upon it was based and includes features such as a journey planner which will also estimate the cost of petrol, and detail petrol stations en route.

For further details phone 0181 563 3033.

PERFECT IMITATION

Blittersoft has announced a new software Pentium Emulator. Called the PCx, it is an all new 80x86 emulation and according to Blittersoft the speed is about three times faster than v2.3 of EMPLANT's e586DX emulation in protected mode. It will run on any Amiga with a 68020 or later processor and no additional hardware will be required.

Various features will be included such as an Intel Pentium Processor instruction set,

Sound Blaster (mono) emulation, and Video board support.

> Blittersoft has announced a new software Pentium Emulator, the PCx



Ten copies Personal P worth £39.99

each are up for grabs.

Cloanto has given us 10 copies of its excellent art package,
Personal Paint 7 and all you have to do to try and win one is
produce a work of art with your Amiga. This can be done in any
Amiga package and can either be sent in on disk or as a print-out.
Please label everything you send us and complete the entry form.

Personal Paint entry form

Name:_____

Where did you find this copy of Amiga Computing?

Please tick if you do not wish to receive promotional material from other companies

We will be including a selection of these pictures in a forthcoming issue - so you could also see your work in print.





Battery Backed Self Recharge Real Time Clock
High Performance Expansion with Full 32-Bit wide DMA

Easy Trapdoor Installation - no modifications required (1240T/ERC fits in Tower)

1230-IV features PGA FPU Socket allowing Optional 50MHz, 68882 FPU



option using its extra SIMM socket). 1230-IV Turbo 50MHz 68030 & MMU OMb, 32-Bit Fast RAM Expandable to 128/256Mb \$139.95

socket provides for up to 128Mb of auto-configuring 32-Bit FAST RAM (or up to 256Mb with the SCSI-2

Fast 60 Nanosecond SIMM RAM Expansions

Bit, 72 pin (Call for prices) Motorola Maths Co-processor 68882 PGA type FPU.

£Call &Call

INSTALLATION

A1200T* TURBO ACCELERATOR

and MMU/FPU for *TOWER SYSTEMS 40MHz 68040 - 0Mb Std, Exp. to 128/256Mb ROMIPS with 60 Nanosecond SIMM fitted

Blizzard 1240T/ERC Turbo Accelerator Memory Board

A super LOW COST A1200 Turbo Accelerator Board, ideal for housing on any *Tower System A1200 main board (mechanical dimensions, high power consumption and heat emission require an active cooling cap - we therefore do not recommend fitting to standard A1200's without the appropriate modifications etc.). The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively priced alternative. Available options such as the SCSI-IV Kit and RAM are shared with the Blizzard 1230-IV and 1260.

1240T/ERC Turbo 40MHz 68040 & MMU/FPU 0Mb, 32-Bit Fast RAM - Expandable to 128/256Mb \$249.95 FULL 68060

PRICE CRASH!



A1500/2000 TURBO ACCELERATOR and MMU/FPU - 40MHz 68040 0Mb Standard, Expandable to 128Mb 30MIPS with 60 Nanosecond SIMM fitted

Blizzard 2040ERC Turbo Accelerator Memory Board

The Blizzard 2040ERC is a super new LOW COST board which offers A2000 owners the opportunity to upgrade to the same performance as our Blizzard 1240T/ERC board. Users will then be able to enjoy full A4000/040 power as well as take advantage of the built in SCSI-2 interface. The "ERC" Processors used on these boards are recycled and vigorously tested 68040 CPUs operating at 40MHz with MMU/FPU - an excellent guaranteed and competitively

2040ERC Turbo 40MHz 68040 & MMU/FPU 0Mb, 32-Bit Fast RAM - Expandable to 128Mb £309.95 FULL 68060

A1200 TURBO ACCELERATOR and MMU/FPU - 50MHz 68060 0Mb Standard, Expandable to 64/192Mb 38.71MIPS with Single Sided 60/70 Nanosecond SIMM

The Blizzard 1260 Turbo Accelerator Memory Board

offers Amiga A1200 owners FULL 68060 POWER with a board that plugs into the trapdoor slot!
Your A1200 will operate at twice or even three times the speed of an '040 based upgrade and up ed of a standard A4000! Available options such as the SCSI-IV Kit and RAM are shared with the Blizzard 1230-IV and 1260.

1260 Turbo 50MHz 68060 & MMU/FPU 32-Bit Fast RAM - Expandable to 64/192Mb **£469**.95

EASY TRAPDOOR
INSTALLATION

2060

A1500/2000 TURBO ACCELERATOR and MMU/FPU - 50MHz 68060 0Mb Standard, Expandable to 128Mb 38.71MIPS with 60/70 Nanosecond SIMM fitted

Blizzard 2060 Turbo Accelerator Memory Board offers A1500/2000 owners the same specification as the Blizzard 1260 Turbo (A1500/2000s will operate at up to five times the speed of a standard A4000) with FULL 68060 POWER & also includes built in SCSI-2 interface! If you want the fastest A1500/2000 around... fit a Blizzard 2060 now!

2060 Turbo 50MHz 68060 & MMU/FPU with built in SCSI/2 0Mb, 32-Bit Fast RAM - Expandable to 128Mb

£569.95

SCSI-IV KIT SCSI-2 Module for 1230-IV, 1240T/ERC and 1260, with additional 128Mb SIMM socket (Fast SCSI-2 DMA Controller - up to 10Mb/sec transfer rates with additional SIMM socket allowing extra memory to be fitted)

Please Note:

CALL TO

AVAILABILITY
BEFORE
MAKING
A LONG
JOURNEY
TO VISIT US.
OUR OPENING

TIMES ARE...

to Saturday, 9.00am until 5.00pm



GORDON HARWOOD COMPUTERS

Dept. ACO/D3 New Street, Alfreton, Derbyshire. DE55 7BP

or FAX: 01 773 831040

email: 100271.3557@compuserve.com

AA without warning due to exchange rate fluctuations. Please confirm price prior to

Blizzard and Cyberstorm products use MOTOROLA 680X0 serie They run WITHIN the electrical timing specification laid down

T-ERC and ERC Processors used on selected boards are recycled and vigorously 68040 CPUs operating at 40MHz - an excellent guaranteed and competitively priced al

OUR RANGE HAS WON MORE AWARDS THAN ANY OTHER...



What the Magazines think...

Amiga Shopper 91% STAR BUY "...the Blizzard 1260 is destined to become the ultimate

object of desire for A1200 owners."

Amiga Computing 92% BLUE CHIP "_want the fastest Amiga in the World, Amiga Format "...Ride on the fastest A1200 in the World..." - 95% GOLD Rating



BY PHONE: Simply call our order line. We accept VISA, Mastercard, Access, Switch Connect, Delta AMEX and Lombard Creditcharge (most 'store cards' are Lombard eg. Dixons, Currys etc) - WITH NO TRANSACTION SURCHARGES!

PDST or FAX: Include your name, address and daytime/evening phone/fax number pl refer details. If charging a redit/debit card include... number and valid from/expiry data (and issue number with Switch cards). Make Cheques (pleas allow 7 days cleanace). Drafts or Postal Orders payable to Gordon Harwood Computers Limited.

GH PRICES: Please remember to confirm prices in case you are looking at an 'old' magazine. Prices can change (up or down) before the magazine's cover month has passed. Please confirm before sending orders by post. Prices inc. VAT at 17.5%

DELIVERY: We offer prompt shipment with fully insured express deli-throughout the UK, Europe and Worldwide at a very modest

COST OF DELIVERY TO MAINLAND UK ADDRESSES ONLY: Standard Delivery (2 to 4 working days from date of despatch) - £7 Express Delivery (next working day from date of despatch) - £10 NON UK MANLAND DESTINATIONS - please call for times/prices etc. EXPORT: Most items are available Worldwide, and at TAX FREE PRICES to non

idents and most overseas UK Armed Forces Personnel (with CO's docum GH WARRANTY: Standard 12 month warranty or, ask about GH's optional comprehensive extended options which are always recommended for profess users to minimise costly down time. Ask GH for full details.













QuickPack unveils new Amigas

miga Fest '96, which took place in late November/early December featured at least a few big name Amiga companies. QuikPak was present with their two new Amiga models, the A5050 and the A4060 L. The A5050 is an A4000T which features the Pentitrator, a Pentium/Amiga hybrid motherboard. This includes PCI, ISA, and Zorro slots. The user can switch between the PC and the Amiga at the touch of a button.

The prototype shown also featured an LCD screen built into the side of the tower. This feature has not been planned for actual A5050's, but this could change if enough demand is shown. The A4060 L is the same computer that was shown by Jason Compton at the Amiga Atlanta meeting in August. It is an Amiga 4000 portable which will feature detachable keyboard and a 68060 accelerator, along with Zorro and video slots.

Phase5 was also present, demonstrating the PowerPC/'060 board, and spoke about the A/Box as well. Other exhibitors included NewTek, who demonstrated the Video Toaster Flyer; Anti-Gravity Products, who ran Photogenics on a Siamese system, allowing them to run the program in a window on a DEC Alpha running Windows NT; Applied Magic was showing their non-linear video editing system Broadcaster Elite; and Asimware was demonstrating Audio Thunder and MasterISO, their CD-R software.

Both Wonder Computers International and Randomize Computer Distribution have announced North American distribution of products from BioCon. One such product is the Super Scan, Super Scan Flicker Fixer, and the Video Magician. All three of these products feature the ability to use a standard VGA or SVGA monitor with an Amiga computer, along with video features unique to each product. Contact either Randomize or Wonder for more information.

I NNOVATIVE UPDATES

Asimware Innovations announced update to AsimCDFS v3.7 on December 6, 1996. Included in the update is support for new CD-ROM drives from Plextor, Pioneer, Panasonic, and TEAC. Also, there is now support for Amiga file comments and protection bits. Other improvements were to the raw sector volume handling and the French and German catalogues. This update is available to registered users via the www page, or site (ftp.asimware.com). The serial number is required to gain access to this update.

Version 3.7 will also incorporate all of the features of AsimCDFS v3. This includes the use of several CD-ROM formats, including Macintosh HFS, ISO 9660, and others. Also, the ability to emulate either CDTV or CD32, including the ability to autoboot from the CD. Furthermore, AsimCDFS v3 supports both Kodak and Corel PhotoCD formats.

Also from Asimware Innovations Inc. is MasterISO v1.25. This version became available in early December, and is an update to MasterISO v1.0. New CD-R drives supported by this software include the TEAC CD-R50 and the Sony CDU-924. This version also supports Kickstart v2.x.

The MasterISO software controls the use of writable CD-ROM drives known as CD-R. Both computer CD-ROMs in the ISO 9660 format and audio CDs in the Red Book standard can be written to with MasterISO. Other supported CD-R drives include Yamaha CDR-100, Yamaha CDR-102, Sony CDU-920, Sony CDU-924, Pinnacle RCD-1000, Pinnacle RCD-202, Pinnacle RCD-5040, HP 4020, and TEACCD-R50.

S MILE FOR QUICKCAM

Omnilink Corporation has announced that pre-orders are being taken for the AQCVid adapter which allows the use of the Connectix Gray Scale QuickCam (PC version) with the Amiga Computer. Price has been set at \$59.99, and dealer inquiries are welcome.

This QuickCam model allows up to a 320x240 resolution capture, in 16 or 64 shades of gray. The maximum frame rate is 24fps. Its field of view is approximately equivalent to a 38mm lens on a 35mm camera, and has fixed focus from 18 inches to infinity. AQCVid support is tentatively planned for a newer model of QuickCam, which is capable of up to 640x480 resolution and 24-bit color.

AQCVid supports several file formats, including IFF, ANIM5, and ANIM7. JPEG and CDXL may be included in future releases. The current version is CyberGraphX compatible, and will work on ECS or AGA Amigas. 16-bit sound support may also be featured in upcoming versions, as well as the ability to control the camera from ImageFX. Currently, only 3.x systems are supported.

Although AQCVid will function on any Amiga, the recommended system will have at least a 68020, 2 megabytes of chip memory, 4Mb of fast memory, and would either have AGA or a graphics card with Workbench emulation

For sales or ordering information, write to sales@olnk.com. Otherwise, contact Northern Light Computing, the official Canadian distributor of Omnilink Corporation at the contact information given in the contacts panel.



Picture taken with QuickCam



SOUVENIRS

Intangible Assets Manufacturing has recently unearthed a treasure-trove of the metal decals featuring the Amiga logo in both Boing! form and the double checkmarks style. These decals have an adhesive backing, allowing them to be placed anywhere desired.

In a special promotion, IAM is offering to include these souvenirs of the Amiga's past in every order until December 31, or while supplies last. This offer accompanies special holiday pricing from IAM. See contact information below for more details.

CONTACT POINT

Intangible Assets Manufacturing 828 Ormond Avenue Drexel Hill, PA 19026-2604 Phone: (610) 853-4406 Fax: (610) 853-3733

WWW: http://www.iam.com/amiga/ E-Mail: info@iam.com

Asimware Innovations, Inc. 600 Upper Wellington Street, Unit #D Hamilton, Ontario, Canada L9A 3P9 Phone: (905) 578-4916 Fax: (905) 578-3966

WWW: http://www.asimware.com E-Mail: info@asimware.com FTP: ftp://ftp.asimware.com

Northern Light Computing
Omnilink Corp's Official Canadian
Distributor

WWW: http://www.freenet.edmonto n.ab.ca/~viking/ E-Mail: viking@freenet.edmonton.ab.ca

Wonder Computers International 1315 Richmond Road Ottawa, Ontario, Canada K2B 8J7

Phone: (613) 721-1900 Fax: (613) 721-6992 WWW: http://www.wonder.ca

Randomize Computer Distribution
R.R. #2
Tottenham, Ontario, Canada LOG 1W0
Phone: (905) 939-8371
Fax: (905) 939-8745
E-Mail: sales@randomize.com
support@randomize.com

AMIGA COMPUTING FEBRUARY 1997

Pro-GRAB... Freezes Frames Much The Cool way to Grab Images on your Amiga

CHECK OUT OUR NEW... roTel™, Sound Samplers and PCMCIA Interface

camcorder

ProGrab™ - Voted as **The Best Video Hardware** product for the Amiga. This is especially pleasing because the award comes from the Amiga Shopper magazine's readers...

Our Satisfied Customers

value for money

ProGrab™ - Amiga Shopper 95% STAR Buy and

orp, crisp and faithful to the original colours, we grinly impressed and... "Highly Recommended you are a Videographer or a Graphic Artist, look to the ProGrab 24RT Plus. It's a winner."

The revolutionary S-VHS ProGrab™ 24RT Plus with Teletext is not only the best way to get crisp colour video images into your Amiga, from either live broadcasts or taped recordings, it also costs less than any of its rivals. This real time PAL/SECAM/NTSC* 24-Bit colour frame grabber/digitiser has slashed the price of image grabbing on the Amiga and, at the same time, has received rave reviews for its ease of use and excellent quality results. ProGrab™ has earned honours from just about every Amiga magazine and Video magazines too! And... with ProGrab™ you needn't be an expert in Amiga Video Technology, a

simple 3 stage operation ensures the right results - Real Time, after time.

Select any video source with S-VHS or composite output. This could be your camcorder, TV with SCART output, satellite receiver, domestic VCR/player or standard TV signal passing through your VCR/player... the choice is yours.

With ProGrab's software, select an image you wish to capture using the on screen preview window and Grab (because the hardware grabs frames in real time, there's no need for a freeze frame facility on the source devicel).

Once grabbed, simply download and view the full image on your Amiga screen. ProGrab also includes a Teletext viewing

and capturing facility from TV or satellite sources.

STAGE 3...

Use the 'grabbed' image with your favourite word processor, DTP or graphics package.

> ProGrab really does make it that simple!



Grab images with vour camcorder including S-VHS.

or. Take a signal from a TV with SCART output.

or. Use the signal from vour satellite receiver.

> or, Grab TV or video pictures from your VCR's video output including S-VHS.

ProGrab is just

ProGrab 24RT Plus

Supports all recent Amigas and is also fully AGA Chipset compatible. You can render images in any Workbench screen mode resolution including HAM8 mode (Amiga RAM permitting).

Compatible

with both VHS

and S-VHS!

- Saves and Loads images in IFF/LBM. IFF/LBM24, JPEG, BMP, PCX, and TARGA file formats. ProGrab saves animations as Anim5 files and animations with sound (requires PCMCIA interface and separate sound sampler) as Anim5 = 85VX files. A range of image processing effects, palette computing routines (AGA only) and dithering methods are featured in ProGrab Version 2.6.x. Photogenics fully supports ProGrab with a custom Loader to enable grabs directly from within the program saving YOU time!
 - - Release Z.6.x software now includes...

 Release Z.6.x software now includes...

 ADDITIONAL TELETEXT FACILITIES With either Terrestrial or Satellite TV signals.

 LARGER PREVIEW WINDOW. Double Resolution and 4 times area of previous ProGrab softw

 INTERNATIONAL SUPPORT Now compatible with composite PAL SECAM and NTSC

 Straight from the box!

ProGrab is supplied with just about everything you'll need ...

ProGrab 24RT Plus Digitiser Latest ProGrab Version 2.6.x Software

- - Mains Power Supply Unit
 Parallel Port Connecting Cable
 User Manual
 Input sockets for Composite and SVHS.
- A video source cable will be required to match your own equipment Ask for details
- ★ Standard ProGrab hardware is PAL/SECAW/NTSC compatible. Interface mode options are av.

 SECAM only, ProGrab™ supports any Arniga with Kickstart 2.04 or later and a minimum of

 ...

 Technology

 **

for A1200 and A600

£39.95 protorabs optional PCMCIA Interface includes the latest version software and exter performance for serious/professional users - offering the following benefits...

Faster Downloading Times (up to FIVE times quicker)
Improved animation speeds of up to 1175s (mono) and 3.5fps (colour)

Saving of animations direct to your Amiga8 hard drive
Freeing of your Amiga Parallel Fort for use by a printer or other parallel peripheral

Sound sampling and animation capabilities (separate sound sampler read, see bel

STEREO SOUND SAMPLERS

Standard Stereo Sampler £19.95

Hi-Fi Stereo Sampler £24.95



Post or FAX your requirements (quantity provided OR, if you'd simply like further information please contact.

E44.95

GORDON HARWOOD COMPUTERS

Department ACO Gordon Harwood Computers Limited. New Street, Alfreton, Derbyshire DE55 7BP FAX: 01773 831040 email: 100271.3557@compuserve.com

全01773 836781

Surname: Mr/Mrs/Miss/Ms: Postcode: County (Country): **Evening Phone:** Daytime Phone: ProGrab Plus™ @ £129.95 Overseas Customers... PCMCIA Interface @ £39.95 ProTel™ Teletext Decoder @ £44.95 Card holder's signature: Standard Stereo Sampler @ £19.95 £ Hi-Fi Stereo Sampler @ £24.95 7:00 Standard Delivery £7 (2/3 Working Days) or an additional £3 for Next Working Day Delivery TOTAL Card No Valid From: (Switch/AMEX Or **Expiry Date** made payable to GORDON HARWOOD COMPUTERS LIMITED on the reverse of any cheques or any

I enclose a Cheque/Bank Draft/Postal Order for £

EXTRACTING COVER DISK

Before you even think of putting the cover disks any where near your computer, make sure you write protect them. Move the black tab in the top corner of the disk, so you can see through the hole. Doing this makes sure you cannot damage the disks in anyway. There is no reason why the cover disks need to be written to, so even if the computer asks you to write enable the disks, don't do it.

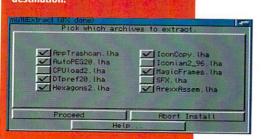
To extract any single archive, simply double click its icon and follow the on screen instructions. If you want to quickly extract the program to Ram, select the NOVICE level on the welcome screen and press proceed once on the current screen and then again on the next. The program can be found in your Ram disk. Normally most programs need further installing, so read the documents on how to do this.

HARD DRIVE USERS

Hard drive users do not have to boot with the first disk, but you must make sure you have the Amiga's Installer program in your C drawer. To make sure your hard drive has the correct files in place, double click on the SetupHD icon. This will check if you have the Installer program and if not will copy it across, do not worry as it will not write over any existing files.

All you hard drive owners will find MultiExtract very useful. It is a separate method of extracting the cover disk files. It allows you to extract a number of files in one go, to your hard disk or Ram.

When you run MultiExtract, you will be presented with a number of check boxes, each representing one of the programs on that cover disk. Just deselect all the programs you do not want extracting and then press proceed. All selected programs can now miraculously be found in the selected destination.



This is MultiExtract for all you sensible people with hard drives



For all you would-be boy racers get ahead of the pack and get some practice in with the XTreme racing

XTREME RACING

Author: Stilltuna A1200/A4000

It is one of the highest rated racing games of recent times and it's all here for you to

play. XTreme racing has it all: Mario kart playability, one, two, three and even four player modes, null modem link up modes, single races and cup modes raced over 12 different tracks in six environments. There is so much here you

will be playing this till your fingers are gnarled, boney stubs.

The original XTreme racing came on three disks but the authors have managed to compress it onto two. So before you can go ahead and play the game you

will have to decompress the game either onto your hard drive, nice, or onto three spare floppies – a bit poo. Read the step by step guide if you have any problems.

There are lots of little hidden extras in XTreme racing you should check out. Once you have started a game press the escape key and a mini menu will pop up. Using the cursor keys you can browse around this and change options using the return key.

Depending on which menu page you are on you can quit the game or on other pages you can control the screen size and pixel resolution. You can even set up a tracking camera so you can watch yourself drive around the track, yes very useful.





INSTALLING XTREME RACING

XTreme racing is not a small game and the authors have had to physically crowbar the game onto those two bulging disks you have in your sweaty mitts. Before you can play the game you will have to install it on your hard drive or three spare floppies. Hard drive users have it the easiest.

- 1. Boot up your machine with your hard drive
- 2. Insert the first cover disk
- 3. Double click on the XTreme disk icon
- 4. Double click on the HDinstall icon
- 5. Follow the on screen instructions

Floppy only users need to have three formatted blank Amiga disks at hand and have them named XTR1, XTR2 and XTR3.

- Boot with your original Workbench disk
- 2. Format three spare disks
- 3. Name them XTR1, XTR2 and XTR3
- 4. Insert the first cover disk
- 5. Double click on the XTreme disk icon
- 6. Double click on the Floppy install icon
- 7. Get ready for a lot of disk swapping
- 8. Follow the on screen instructions





If you should find your Amiga Computing CoverDisk damaged or faulty, please return it to:

TIB Plc, TIB House, 11 Edward Street, Bradford, W. Yorks BD4

Please allow 28 days for delivery

GET CONTROL

Hey why do you have to read this? It's a driving game you go around the track as fast as you can, what more do you need to know?

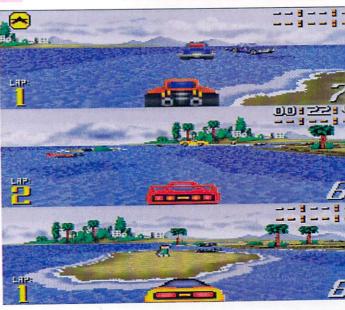
Well, if you need to change the controls from the main menu select set up options and go to the top and select change controls. Here you can redefine keys and select which players should use which joysticks. If you have access to a two button joystick or even a CD32 pad XTreme racing can take advantage of these as well.

You should also check out the main set up screen as well – there are some handy options you can change here as well. The number of laps you want to race, the sound track you race to, if weapons should be on and if humans get an advantage over the computer – and you should really.

When you first start, XTreme racing is set up for players one and two to use the keyboard and the keys are set as below. Players three and four are set to use joysticks.

	Player 1	Player 2
accel	q ·	rshift
brake	a	ralt
left	n	KP 1
right	m	KP 2
fire	lalt	ramiga







Cartoon Clipart

Mick Davis's Cartoon

Clipart Volume One is a

new Amiga CD-ROM con-

taining around 500 commissioned

cartoon images, all of which can be used "royalty-free". Each image is

stored as IFF, and all have been

scanned at the highest possible resolution to ensure the best qual-

LCOME. Telephone: 0181 873 0310 for more inform



IN-TO-THE-NET

Contains around 5000 erotic hand drawn Images in the Japanese anime tradition.

This CD is of an Adult nature and should not be purchased by anyone likely to be offended by drawings depicting nudity and / or sex acts.

Includes images only suitable for persons the age of 18.

ANIME BABES (18)



instructions.

1.2gigabyte (1200mb) ready-to-fit

Amiga hard drive. Pre-formatted

and installed with Workbench 3. Supplied with all cables and

With FREE harddisk sw!

The new Magic Workbench CD contains the largest collection of Magic Workbench Icons, Backdrops and tools ever compiled. Includes well over 5,000 Magic WB Icons, Over 600 specially selected Magic Workbench backdrops in 8, 16 and 256 colours, over 30megabytes of Workbench tools, gadgets, patches and desktop enhancer tools/utilities The CD also includes Magic Workbench

aswell as many other items never before released on any Amiga CD ROM. If you want to update/enhance you existing Workbench 2 or 3 then this is the perfect Workbench add on CD ROM. This CD is only suitable for any Kickstart2/3



Quad(4x) speed CD-ROM drive

complete with interface for the A1200. Supplied with installation

software. Includes a FREE

copy of the Epic Collection.

Please quote: Q-Drive

Now only £149.00

+ £4 00P&P



AMIGA CD-ROM DRIVE



based Amiga's such as the A500+, A600, A1200, and A4000





FOR

Adult Sensation is possibly the Amiga's largest selling adult title. It features over 4,000 high quality 256 colour images of the "adult" nature. Image viewers and coverters are included for any Amiga. (OVER 18 ONLY)

(CD01) £19.99

Adult Sensation 2 not only contains 4,000 new colour images but also includes tons of adult related samples, adult music modules, tonnes of adult stories, adult animations, black&white 70's photos, adult games and more

(OVER 18) (CD115) £19,99

Sexy sensation, this CD contains around 2,000 specially chosen high quality BMP & GIF Images. Viewers & graphic converters are included for easy and quick access to any of the pictures on any Amiga. (OVER 18)

(CD169) £19,99

Adult Sensation 3D actually contains over 2,000 true 3 Dimensional colour images. 3D viewing software and top quality 3D glasses are also supplied. Available now (OVER 18)

Rated 90%

Adult Animations contains hundreds of naughty? animations/film clips for Adults only. Viewing software the Amiga. Limited first stocks so order now. HURRY!!!! (STRICTLY OVER 18's ONLY)

(CD146x) £29.99

Adult MENsation is a collection of unique images of the male body. This CD-ROM has been compiled to forfill the hundreds of requests for a CD dedicated to the ladies. Very easy to use. Okay on any Amiga.

24.99

24.99

34.99

12.99

12.99

12 99

49.99

19.99

19.99

9.99

39.99

49.99

9.99

LightROM Gold

3D Objects. (LWO & IOB)

CD32 Network set 2

The Learning Curve

Octamed 6 CD Reduced

1078 Weird Textures

3000 jpeg Textures Into The NET (2cd)

Multimedia Backdrops

DEM Rom

Light ROM4

Xi Paint 4.0

Octamed Sound Studio

Personal suite Reduced

CD164) £19.99

19.99

29.99

34 00

19.99

49 99

19.99

19.99



I worked on this title for almost two years. and it still impresses me". Vince Pike. Epic



UK

100%

IORMAL/DE

*Requires an Amiga 1200 or 4000, a hard drive, a CD-ROM drive and 4mb+ of ram. (6mb ram recommended)

GIF SENSATIONS (2CD)

Contains around 10,000

NOTHING BUT GIFS

Features thousands of

very high quality images

colour images suitable for

(CD128) £19.99

(CD197) £19.99

PRODUCED IN

NO. OF PICTURES

MADE IN THE

AGA INTERFACE UPGRADAB! F

NO. OF SAMPLES

SEARCH MODES

FILMCLIPS

MUSIC

Inter-ACT

SUPPORTED





The Explorapedia menu The subject creator

1991

1300

USA/UK

163

NORMA

AVAILABLE FOR ALL AGA AMIGA's (with 4mb+ ram & Hard drive)

EPIC ENCYCLOPEDIA GROLIER HUTCHINSON'S

USA

NORMAI





LIGHT-ROM 4 £29.99

objects for Lightwave

Contains the best Lightwave™ 3D objects from LightROM issues 1, 2 and LightROM 3.

The latest issue contains thousands and brand new

LIGHT-ROM GOLD £19.99

1997 AGA version features include: *True 256 colour Multi-media Interface

unlike most encyclopedias
*Around 16,000 subjects covered

rform Aalborg to Zygote

*Hotlist editor
So you can create lists of subjects

*Hundreds of samples
Music tracks and and over 200 samples

*Thousands of pictures
Over 3,000 colour/mono pictures included

*Dozens of film-clips/animations
Over 200 explice tracked film clips
Over 200 explice tracked film clips

*Dozens of film-clips/animations
 Over 200 subject related film-clips

*View many film-clips "full-screen"
 New Zoom option

*Now includes Music tracks
 National anthems and different music styles
 Import new subjects
 from the Internet or from floppy disk

*Export data to printer or file
 and use it in your own projects

*Kids Explorapedia
 Eight kid's interactive play-about sections

Eight kid's interactive play-about sections

Enhanced speech facility
Improved speech synthesis *Subject creator

The Kara

Collection

s a profes-

sional and

unique set onts, back-

of fonts, back-drops and tools for spe-

cial effects in pictures

animations, titling and presentaions, £34.99

KARA FONTS CD

Create your own subject data

Network compatible
Can be run through CD32 or CDTV



*Upgrade your existing version to the 1997 version.

*Simply return your current CD-ROM version along with a cheque of just £11.99 plus P&P

This CD-

ROM con-

tains over

1000 digi-

tal elevation

THE EPIC INTERACTIVE ENCYCLOPEDIA '97





IMAGE CD-ROMS Both for Just £38

AMINET

LIGHT-ROM CD-ROMS Aminet 16 contains over 600mb of the very latest Amiga software, including games, demos, animations music, tools, comms, patch-es, etc. Available for £12.99 or £10.99 when you take out a subscription.





This CD was rated 95% in AF it Inis CD was rated 95% in AF, it features all the tools and information, specifications etc, needed to produce and develop Amiga software. Includes the latest versions of the installer, CD press-ing software, CDXL toolkit, etc.

DEVELOPERS CD v1.1 (CD228) £14.96

e Match other ad agazine. We Price I with any oth in this mag

Available Now! o's of all titles.

Just £2.50 inc P&P

Aminet set one

Aminet set two

Aminet 16

World Info

Aminet set three

Aminet 14 October

Aminet 15 November

Amiga Repair Kit CD

Amiga System Booster

Amiga Developers CD

Magic Publisher (4cd)

Meeting at Pearls 4

Print Studio Pro

Turbo Calc v2.1Spreadsheet



contains 100% original AGA material including pictures, AGA demos, AGA games, and AGA tools. Most information runs direct from the CD.



TOOLS FOR FOOLS



maps(DEMs).

For use in VistaPro

Scenery, Animator of World Construction Set.

DEM-ROM (£14.9

se any of the following CD-ROMs FREE with every E25 you spend! Spend E25 choose one free CD Spend £50 choose two free (D's etc.

DEMO MANIA Volt

AGA EXPERIENCE 2

COMPUTA MUZAK

unlike anything seen on the Amiga^T
*Produced in the UK from Aalborg to Zygote

://www.globalnet.co.uk/-epic



Emulators Unlimited contains Software emulation tools for the Amiga. Spread over numerou platforms are emulators for: Apple, BBC, Commodore 64, Commodore VIC20, Amstrad CPC, Apple Mac, Gameboy, Atari ST, MSX, Apple200, Atari 800, Atari1040ste, Sinclair QL, Unix and more. Also features hundreds of games, tools etc for most of the emulators.

The FLASH-ROM is a "companion" Emulators CD that contains many new cartridge based machine emulators like: Kelecovision, Nintendo, Gameboy etc. Order code: (CD260) £19.99*. Order both Emulators & FlashROM for just £29.99* (CD283).

MIGA MOUSE & MAT

(AM01) Only £12.95 + £1P&P

Official Commoo

Size: 220mm x 188mm SB00170) £3.99 inc P&F

EMULATORS UNLIMITED +



& colour clipart, and hundreds of quality fonts. Print Studio PRO provides a versatile colour correction system, sulting in perfect colour output on most printers. KS3 or high-

PRINT STUDIO PRO





White XL T-shirt with official AMIGA logo.... (TS001) Only £10.99 +£1

Cloanto's Suite confull versions of Personal Paint, Personal SBase, Personal Write, P. Font: and over 500mb of useable Art, Texts & Fonts

Paint, Image Processing, Animation, 24bit Printing, Word Processing, Database and much more

Rated 90% P.SUITE (1)



INSIGHT DINOSAURS

JUST IN. Women of the Web... (AGA 4mb) (CD402) Just £19.99 Call now for a FREE full colour 16 page CD-ROM catalogue!

World of Clipart is a double CD ROM containing around 40,000 mono and colour clipart images contained in over 100 catagories in IFF, GIF, PCX, CDR, EPS, TIF, & BMP. Tools for converting images to another formats are included. Subjects include Animals, Anatomy, Babies, Men, Women, Trees, Reptiles, Insects, Xmas,

Religious, Planes, Vehicles, Ships, Toys, Zodiac signs, Eye catchers, Humour, Cats, Dogs, Computers, Technology, Sealife, Space, Symbols, Dinosaurs, Plants, Nature, Ads, Tools, Astrology, Hands, Birds, Business, Office, Workers, Cartoon, Lion King, Education, Food, Gardening, Holidays, Houses & Buildings, Helicopters, Children, Banners, Medieval, Military, Monsters, Music, Sports, Transport, and more





This NEW CD rom contains around 15,000 all-time classic Commodore 64 games and sweenulator to run them on your Amiga.... In stock now!

C64 GAMES CD v2 (CD251) now £39.99



Thunderbirds, Robocop, Sea Quest DSV, Bladerunner, Aliens Terror hawks, 2001. Blake7, Battlestar Galactica, Tron, Total Recal, 2010, Space 1999 etc. *Buy SCI-FI Sensation from us and you will always receive the latest available version.



Choice for great value and service

Seperate order lines

Ways to receive your order

Next Day or Same Day Delivery Standard 1-2 days.

Easy ways to order

Ways to pay Credit card, Cheque, Postal-order, Cash or C.O.D

Choices of free CD-ROMs Music, Games, Demo's



around 3000 other classic spectrum game files including multi-load games. Speccy '96 also contains hundreds of documents containing instructions for most games aswell as hundreds of speccy game cheats.

Okay on any CD-ROM drive connected to an Amiga.









now also includes: Workbench games, rs. Hundreds of bad jokes and more. Rated: AF GOLD 95% - CU 91% - AUI 90% - AC over 90% THE SPECCY CD '96

This new CD contains hun-dreds of megabytes of Blitz source-code, Blitz tutorials, game graphics, sound-fx, fonts, many Blitz WEB pages and game music tracks, all of which you can use freely in your own Blitz programs.

BLITZ ENHANCER (CD252 £17.99 Arcade Classics is an original colection of ALL your old arcade favourites, Including Amiga ve sions of PACMAN, SPACE INVADERS, ASTERIODS, MIS SILE COMMAND, PENGO, FROGGER, LOAD RUNNER, GALAXIANS, DONKEY KONG NUMEROUS TETRIS GAMES,

BATTLEZONE, TEMPEST, COMBAT, TRON, SPACE WARZ, THRUST, Q-BERT, HUNCHBACK, MOON PATROL, TRAIL BLAZER, BREAKOUT, CENTREPEDE, CYCLES, BEZERK, SNAKE, SCRAMBLE, PING PONG, BREAKOUT, NUMEROUS C64 CONVERSIONS, A COL-LECTION OF JEFF MINTER GAMES AND HUNDREDS Over 600mb of unforgettable retro-gaming.

Now Includes easy to use Multimedia Amiga Interface.

ARCADE CLASSICS Plus



Contains 1200 our most popular floppy based software titles on one giant 600mb CD-ROM. Now you can purchase the entire Epic collection in one go. Subjects include: Professional mono clipart, colour clipart, numerous 3D objects for Imagine & Lightwave, Colour, Bitmap, Compugraphic fonts & Adobe fonts Graphics converters, Music tutorials, Beginners guide, 3D stereogram generators,

Hundreds of Sound FX and samples, Virus Killers, Hard disk installer & tools, Various Hardware projects, Hundreds of games including Mind teasers, Puzzle, card, arcade and board games books, and more

THE EPIC COLLECTION v2

COMING SOON

The Epic Interactive Quiz Show is an exciting new Amiga based CD-ROM quiz game for the whole family



Features inlude: *AGA hi-res graphics

*Virtually every question is spoken Upto 4 players/teams can play 20 different subject catagories Select from 10 different charac

tors, or add your own charactors *Use keyboard or special controller *Over 3000 different questions *Includes "flash card" questions



OPTIONAL "INTERACTOR" CONTROLLER. £24.99

THE EPIC INTERACTIVE QUIZ SHOW



DEDI AGENENT WORKDENCH	2 343
REPLACEMENT WORKBENCH	
RWB8-2 - WB1.2 (2disks)	£8.00
RWB9-3 - WB1.3 (3disks)	£9.00
RWB10-3 - WB2.04 (3disks)	£10.00
RWB19-5 - WB3.0 (5disks)	£19.00
HARD DRIVE SETUP	X _
SHS7-2 - A600 HD Setup & Install	£7.00
AHD7-2 - A1200 HD Setup & Install	£7.001
CD-ROM DRIVERS	_ 7
ATP3-1 - Atapi IDE Drivers	£3.00
AAZ7-2 - Zappo/Arcos Drivers	£7.00
SSS12-2 - Squirel SCSI Software	£poa
PRINTER DRIVERS	1
DRV5-1 - 100 Printer Drivers	£5,00
(Epson, Canon, HP, Star, etc)



AMINET SUPER SUBSCRIPTION

TRANSFER YOUR AMINET SUBSCRIPTION FROM YOUR CUR-RENT SUPPLIER AND NOT ONLY WILL YOU GET EVERY FUTURE COPY OF AMINET FOR £10.99 BUT WHEN YOU JOIN OR SUPER SUBSCRIPTION WE'LL ALSO SEND YOU £20.00 WORTH OF AMIGA CD-ROM VOUCHERS FREE OF CHARGE

CALL OUR SPECIAL AMINET SUBSCRIPTION HOTLINE ON:

01793 432176



This CD contains information that NOBODY wants you to know about, and includes tons of megabytes of text documents and photographs relating to UFO sightings and abductions etc

ENCOUNTERS

(CD179) £14.99

Saturday 9:30am - 6:00pm/sh



This CD contains almost 100 variations of the worlds most variations of the Worlds most addictive and loved game. Nearly all the games are ready to run directly from CD, and archived versions are also included.

Available Now!

NOTHING BUT TETRIS

(CD148) £9.99

Fax: 0 1793 514187 Send to: EPIC 43 Akers Way, Swindon, Wilts, UK. SN2 2NF Overseas Orders: +44 1793 514188

Zealand you can purchase any of our CD-ROMs from our Sydness to EPIC. 36 Forest Road, Heathcote, NSW. 2233

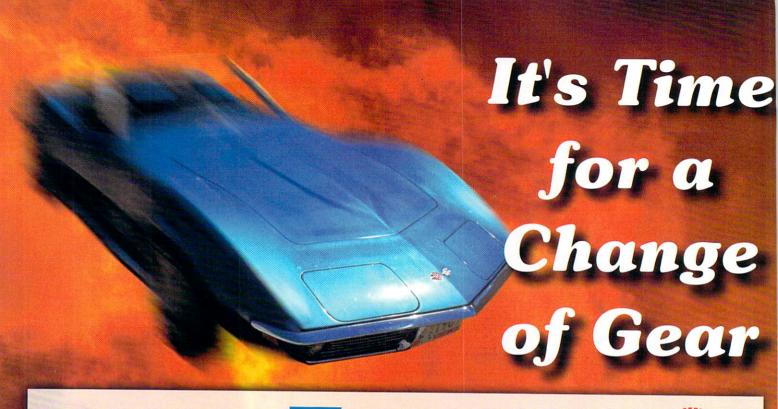
PRIORITY ORDER FORM

NAME **ADDRESS**

PAYMENT METHOD CREDIT CARD DETAILS

EXP DATE

All prices inc PLEASE SUPPLY Qty £££ ITEMS TOTAL GOODS VALUE £ **POSTAGE & PACKING** £ AMOUNT ENCLOSED



IBrowse Ver 1.10

IBrowse has already been voted the Web Browser of choice by the press and its users alike. Now, with version 1.10, IBrowse massively extends its lead over the opposition.

1.10, IBrowse massively extends its lead over the opposition.

Some of the features of IBrowse version 1.10 are:

Support for HTML 1, 2 and 3 as well as Netscape extensions so your web browsing is a pleasure. Frames are fully supported.

The window layouts and user interface can be customised to your own liking; great flexibility.

Compatible with all TCP/IP stacks os surfing is cool and easy.

Hotlist stores all your favourite web sites, History list shows all the pages you explored during a session. Cached pages for instant backward access.

Supports animated GIF, IPEG, interfaced & transparent GIF, play or view any sound, graphic or movie using the appropriate datatype.

Opens on any Amiga Screen and supports all video cards e.g. CyberGraphX.

Load stored or cached pages from hard drive or CD-ROM.

Includes FIP plug-in to make downloading as simple as point-and-click.

Fast and friendly module for gopher hunting.

Built-in support for email - send messages from any page with email link.

Superb manual and full technical support from HiSoft.

Requires 3Mb free memory, 3.5Mb hard drive space and WB3.

Upgrade only £5 on disk or free on the web!

MediaMagic

MediaMagic is a superb new product for designing and playing quality presentations on your Amiga, at the right pric

MediaMagic sports an interactive, user-friendly and

MediaMagic sports an interactive, user-triendly and intuitive interface so that building presentations becomes a joy. Fully compatible with graphic cards. The MediaMagic editor uses drag-and-drop for easy, hierarchical positioning of objects and allows the editing of several scripts at once. You can use all sorts of graphic images in your masterpiece with Mark Market services.

with MediaMagic's support for all IFF-ILBM data formats, including ILBM-24, which are converted to HAM6 or HAM8 automatically.

including ILBM-24, which are converted to HAM6 or HAM8 automatically. You can incorporate a wide variety of music & voice samples to liven up your presentation: MediaMagic supports common music modules such as Sound-Pro-Noisetracker as well as Octamed and Octamed Pro (8 voice) & 8SVX files. Working with animations is easy with MediaMagic's support for IFF animations in Anim5, Anim2 and Anim8 formats.

Business charts can be created directly in the program.

OS 2.x and OS 3.x compatible, simple controls, fully multitasking.

Requires 2Mb RAM, OS2.x up and hard disk recommended.

MIIIIII

£49⁹⁵

DiskMagic 2

DiskMagic is the friendliest file manager on the Amiga and now version 2 takes this fine product to new heights of useability and functionality - probably the easiest-to-use and most versatile file management utility on the Amiga. Here's



Support for LZX archive format, the new standard in Amiga compression. Many new functions including: super-

fast delete command, extra filetype options, additional ARexx commands and internal functions.

New output window preference

* File encryption.

DiskMagic 2 comes complete with a library of icons for gadgets and a comprehensive user manual.

Upgrade

HiSoft C++

powerful, C compiler for the Amiga, at the right price. HiSoft C⁺⁺ comes in two versions. Developer and Lite; here's a brief list of features, call for more detail:

The Compiler compiles at high speed in line with the AT&T 3.0 C++ standard, is ARexx controllable, integrates seamlessly with the editor, includes a project manager and generates code for 68000-68030 and the 688812 FPU. CLI version included.

68881/2 FPU. CLI version included.

The Editor uses multi-windows, is syntax-sensitive, handles as many files as you like, includes an ARexx interface and supports full keyboard shortcuts.

The C/C++ Debugger (Developer only) uses multi-windows, with drag-and-drop technology, allows breakpoints, variable tracking and much more.

The Devpac 3 Assembler is included for low-level work.

The Easy Object Library (Developer only) is included which eases resource handling and use of data structures (lists, large arrays etc.), along with BOOPSI support, error handling with exceptions and online documentation.

The Hot Help (Developer only) system can be activated at any time and gives you full, expandable online help even with an ARexx port.

HiSoft C++ needs 4Mb RAM, OS2.x up & a hard disk

eveloper Version

To Order

0500 223660

Punch those keys for free!

To order the products on this page, or any other HiSoft product for the Amiga (and we have over 40 titles for your computer!) just Freecall 0500 223660 armed with your credit or debit card (all cards accepted). Postage is normally £2 - £4 within the UK or £6 for a curvate of the card. for a guaranteed next day service (for goods in stock). All prices include UK VAT. Alternatively you can write to us or order through our web page. @ HiSoft 1996. E&OE.

HISME YSTEMS

The Old School, Greenfield Bedford MK45 5DE UK Tel: +44 (0) 1525 718181 Fax: +44 (0) 1525 713716 email: sales@hisoft.co.uk web page: www.hisoft.co.uk

Hot News

TermiteTCP now £39.95!

Cinema4D ver 3 Released!

CD-ROM Prices Slashed!

Phone, write or email for more detail

SMD-100

The SMD-100 is a brilliant new concept for home entertainment. Using your existing SCSI CD-ROM, you can now access the world of Digital Video - superb 24-bit quality video with crystal-clear 16-bit sound. Here's what you can do with the SMD-100:

Play any VideoCD or CD-i Movie through your Amiga monitor or through your home TV set.

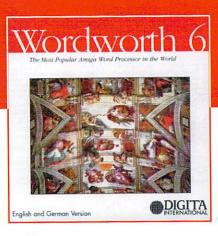
Use the supplied remote control to skip tracks instantly, to view your favourite scenes in silky-smooth slow motion, to grab a frame with the rock-solid pause facility and move speedily through the film with the fast forward and rewind functions

Use the SMD-100 as part of your Amiga SCSI chain or take it, along with your

CD drive, next to your normal television, for all-the-family viewing, ere are many hundreds of VideoCD titles available, all featured in our extensicatalogue. The SMD-100 VideoCD/MPEG player—a command performance, time after time, after time.



Squirrels are Cool!



Morain the wise

ooking back at may last review of Wordworth almost a year ago I ended the review by wondering what, if anything, Digita would be able to add to Wordworth if they ever brought out a new version. Now that a new version has been released my question has been answered, and that is not a lot.

This time round Digita are really pushing the CD version, with them throwing in 50 fonts and a 1000 pieces of clipart. Having also looked at TurboCalc and Personal Paint both of which also came on CD I can greatly recommend you go for the CD version every time as it save you messing around with wads of floppy disks when installing the program to your hard drive.

Last time I look at Wordworth I made the point that it still did not have DataType support and it would have been one thing I expected to see added to any update but unfortunately it is still missing from version

You could try to weasel out of DataType support by saying as they only use 8 bit

Digita have just released what they say is version six of **Wordworth**, but **Neil Mohr** wants a recount

colour why compromise the quality of your documents, but that does not stop them supporting the new 24 bit picture DataType. Even if it is public domain, programs like iBrowse seem to be benefiting from it.

I may have forgiven them for not adding DataType support if they had bothered to add a Jpeg import module, but this is not even there and as the Jpeg decompression/compression source is freely available I cannot see any excuse for it. Personally I think supporting what is now one of the most widely used picture formats is quite important and I would gladly swap the Gem, PCX and BMP filters which I would probably never use for a Jpeg one.

Do not get me wrong Wordworth is still an excellent program, but why bother calling this version six when it is blatantly not. All they have done is shove it on a CD and added a couple of minor features. I still think since version five that Wordworth pips FinalWriter in the Amiga word processor race, mainly thanks to its much greater system conformity, I actually like being able to use MagicMenus you know Softwood. Anyone looking for their first Amiga word processor will not be sorry if they pick Wordworth six, but owners of version five thinking of upgrading, unless you want to spend 20 quid on what is essentially a clipart and fonts CD I would not bother.

WHAT IS NEW THEN?

DRAWING TOOLS

Probably the latest addition that will be of most interest to people are the new drawing tools. In previous versions your drawing tools were pretty limited even though Digita did give you a lot of freedom over the tools that were available, with the line type, width, colour and fill of the object totally definable by the user. You were however stuck with plain old lines, rectangles and ellipses.

This new version adds some useful, if not overly due new tools. Straight off you have two polygon tools, one produces regular shaped polygons. The type that has the same sized sides. When drawing a rubber outline of the polygon is displayed and you can rotate and size this until you are satisfied and the polygon will be drawn, and of course you can resize and move the polygon whenever you like.

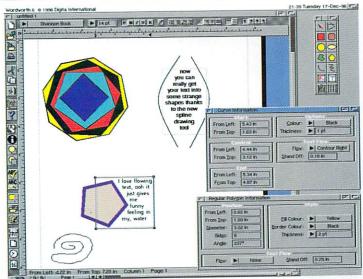
As with all the other drawing tools double clicking on a previous polygon will pop up its information requester from which you can alter the polygon settings. Such as the number of side, angle of rotation and what sort of text flow you want, if any at all, and the new tools retain the modeless requesters so that you can leave their information requester open and carry on editing the document

as well as being able to instantly see changes you make.

The second polygon tool allows you to draw a irregular polygon, by linking together any number of lines you like, or by holding down the control key you can draw a freehand polygon and then apply the usual line and colour options.

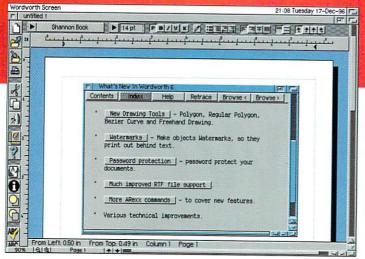
Along with these polygon tools a couple of line tools have been added to compliment the straight line tool, which offers all sort of drawing tools but is at

the end of the day, straight. A bezier curve tool lets you add nicely curved lines to your documents, once there three control points let you adjust the start and end points, with the middle one adjusting the amount of curve, all fairly simple but they work. It would have been nice to have seen the arrow



options from the straight line version of the drawing tool having made it onto the curves, but then maybe in version seven? The other drawing tool is a free-hand mode that just lets you scribble a line over your document and then scale it to whatever size you like.

AMIGA COMPUTING FEBRUARY 1997





Wordworth is still a highly versatile program and will allow you to create the most complex of documents, even to the point of magazine layouts

RICH TEXT FORMAT

Hardly a new addition that is going to shake the computing world, but now Wordworth has extra support for the RTF or Rich Text Format. This is a standardised way of saving off documents that can then be transferred to any other RTF compatible word processor and the document will retain a minimum amount of the style and formatting that it had on the original program.

Wordworth recognises the basic RTF formatting commands such as tabs, paragraph marks and more importantly font sizes and styles. What you can now do is specify replacement fonts types. If you are regularly importing RTF files from a PC or Mac the chances are they use different fonts to that of Wordworth, to help improve the translation of documents you can now specify replacement Wordworth fonts for the imported files by manually editing a text file in the wwFiles drawer.

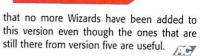
BITS AND BOBS

Now we are getting to the real minor additions, the most useful of which is what Digita have called watermarks and simply allows a Wordworth object to be used as a backdrop to a document. What this does do is help to keep graphics separate from your text as to manipulate a watermark object you have to hold down an alt key before Wordworth will allow you to change

If you are worried about evil people getting to your documents you can now password protect them, with a password. They are also encrypted so even though the document can be loaded into Wordworth 5 it will only appear as gobbilygook.

On top of this Digita have updated Wordworth's ARexx port with new support commands which could be of particular help with Wordworth wizards. It is a shame

If you are worried about evil people getting to your documents you can now password protect them...



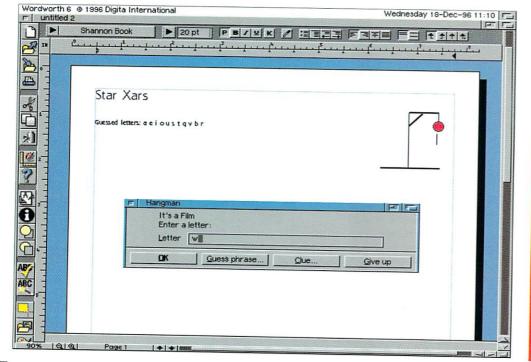




THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	1	_			
Dno					1
Pro	טע	CI	DET	AIL	

Product	Wordworth 6
Supplier	Digita
Price	£39.99
Tel	01395 270 273
E-Mail	info@digita.demon.co.uk
www:	http://www.digita.com/

SCORES		
Ease of use	90%	
Implementation	89%	
Value For Money	95%	
Overall	90%	



Orders Only 800-735-2633

VisionSoft

P.O. Box 4398 Carmel, CA 93921, U.S.A.

Internet: sales@visionsoft.com Homepage: http://www.visionsoft.com

Asim CDFS 3.7 w/Fish CD GVP I/O Extender Card

\$22,95 \$49.95 \$115.95 \$149.00

Memory Upgrades

GVP-32 60ns 4mb Simm	109.95
GVP-32 60ns 16mb Simm	299.95
1x8-70ns Simm	19.95
1x8-80ns Simm	17.95
1x9-70ns Simm	20.95
4x8-70ns Simm	39.95
4x9-80ns Simm	39.95

72-pin SIMM Special

1x32-60ns Simm (4mb)	24.00
2x32-60ns Simm (8mb)	45.00
4x32-60ns Simm (16mb)	89.00
8x32-60ns Simm (32mb)	179.00
	*

DRAM Special

1x4-70ns SC Zip	9.95
1x4-70ns Page Zip	9.95
1x4-80ns Page Dip	9.95
256x4-70ns Page Dip	3.95
256x4-70ns Page Zip	4.95
1x1-100ns Page Dip	3.00

Hard Drives

W.D. 2.5" 540mb IDE	149.00
Toshiba 2.5" 1.3gb IDE	399.95
Quantum 3.5" 525mb SCSI	199.95
Seagate 3.5" 1.08gb SCSI	329.95
2.5" Hard Drive Cable	8.95
2.5" Hard Drive Bracket	14.95

Software

Alien Breed 3D CD32 (Hot)	29.95
Aminet Share 4	7.95
Aminet 14-16	18.95
Aminet Set 3	39.00
Aminet Set 4 (New)	42.00
Amiga Developer CD 1.1	17.95
Amiga Repair Kit CD	39.00
Arcade Pool CD32	15.95
Asim CDFS 2.0	22.95
Capital Punishment (Hot)	39.95
CBM Amiga UNIX Multiuser	49.95
Chaos Engine CD32	9.95
Deep Core CD32	9.95
Defender of Crown II CD32	9.95
Deluxe Paint II	14.95
D/Generation CD32	9.95
Directory Opus 5.0	39.95
Fred Fish CD	15.95
Eric Schwartz CD Archive	19.95
Euroscene 1 CD	6.95
Eve of the Beholder	29.95
FantaSeas CD	22.95
Fresh Fonts 1 CD	9.95
Image FX 2.6	225.00
Insight Technology CD32	19.95
Lemmings CD	9.95
Light ROM 3 CD	29.95
Light ROM 4 CD	39.95
Magic Illusions CD	13.95
Megaball 4 AGA/Non AGA	18.95
Microcosm CD32	9.95
Pinball/Sleep Walker CD32	9.95
Photo CD Manager	32.95
Print Studio Pro CD	39.95
QuarterBack Tool Deluxe	39.95
Sports Football CD32	9.95
Wild Wheel	9.95
Wing Commander	29.95
Word Perfect 4.1	29.95
Zool CD32	9.95

Custom Chips

1.3 Kickstart Rom	13.95
2.04 Kickstart Rom	22.95
2.05 Kickstart Rom	26.95
3.0 Rom for A4000	49.95
3.1 Rom for A5/600/2000	49.95
3.1 Rom for A12/30/4000	69.95
8372A 1mb Agnus	34.95
8375 1mb Agnus	19.95
8375B 2mb Agnus (A3000)	39.95
8373 Super Denise	29.95
8364 R7 Paula	16.95
5719 Gary	13.95
8520 A-1 CIA	12.95
8520 Surface Mount	23.50
Super Buster Rev.11	29.95
Super Dmac Rev.4	42.95
Ramsey Rev.7	29.95
Fat Gary	39.95
W.D. SĆSI Chip 8A	29.95
A2620-30 Rom Rev.7	29.95
A2091 Rom Rev.7	29.95

Upgrade Kits

AS 320 3.1 Kit for A500/600/2000/2500	114.95
AS 312/330/340 3.1 Kit for	
A1200/3000(T)/4000	129.95
Software & Manuals Only	69.95
All upgrade kits include N	
Software and Kickstart I	com(s)

Peripherals & Hardware

Guru ROM V.6 (Low Profile)	70.95
Guru ROM V.6	62.95
A2000 880K Int Floppy Drive	69.95
A3000T Hi Den Floppy Dr.	149.95
A500/1200 Power Supply	49.95
A2000 Power Supply	109.00
A2/3000 Keyboard	79,95
A4000 Keyboard (black)	89.95
Safe Skin for A12/20/30/4000	19.95
Keyboard Adapter A2000 Key	board
to A4000 System	9.95
15-23 Pin SVGA Converter	24.95
15-23 Pin Monitor Adapter	24.95
Vidi Amiga 24RT	224.00
A501 Ram Card	35.95
A520 Video Adapter	15.95
RCA Video Cable	5.95
RF Modulator	7.95
MidiGold 500	29,95
Microway Flicker Fixer	225.00
ICD AdSCSI 2000	59.95
Microbiotics 1200 Clock	19.95
CBM 2065 Ethernet Card	239.00
Micro R&D C64 Power Sup.	35.00

Mouse & Joystick

Wizard 3-Button Mouse	
Biege/Black 560dpi	22.95
CD 32 Joypad	12.95

Oregon Research

Bundle Ibrowse/Termite	TCP 89.00
Ibrowse	39.95
Squirrel Jaz/Zip Tools	24.95
Surf Squirrel SCSI	129.00
Termite TCP	59.95

401 ITEMS

Amiga Technologies 1241 Q-Drive

Quad speed external CD-ROM Drive for A1200, via PCMCIA. No additional Interface required.

Only...\$179.95

Picasso II + 2mb Graphics Board for A2000/3000/4000 \$349.00

Power Computing Ltd (UK) High Density Floppy Drives 1.76mb XL Internal Drive A4000(T) \$88

.76mb XL External Drive

M-tec 68020 A500 Accelerator Accepts Standard 72-pin SIMM \$169.00

Apollo 620 Turbo for A600 68020/25mhz w/FPU \$175.00 Apollo 1240 Turbo for A1200 68040/25mhz \$375.00

AM-Trade Computer (Germany) High Density Floppy Drives

\$109.95 \$114.95

PC Task 4.0 & Upgrade Advanced PC 486 Software Emulator Available Soon

Turbo Print Pro 4.1 Enhanced Printer Software w/ drivers \$84.95

Epson Flatbed Scanner

Action Scanner 2 \$490.00 ES1000 Scanner 2 \$675.00

GVP I/O Extender \$115.95

Amiga Technologies

A4000T System 040/25mhz/6mb/1gb HD 060/50mhz/6mb/1gb HD

A1200 HD System 68020 14mhz CPU, 2meg Chip RAM 880 Floppy Drive, Hard Drive

Magic Software Bundle 1438S Monitor

14" tube, anti-glare, .28mm dot pitch, Hori 15-40kHz, Vert. 45-90Hz

M1764 Monitor 17" diagonal FST Invar Mask, .28mm dot pitch, Hori 15-64kHz, Vert 45-125Hz

Call for Pricing

CD ROM Drives

NEC 4X SCSI Int/Ext	115/175.00
Teac 6X SCSI Int/Ext	209/269.00
NEC 8X SCSI Int/Ext	239/299.00
CD ROM Driver for	All Amigas
ASIM CDFS 3.7 w/ F	red Fish CD
Special Prices \$	

Math-Co Processor & CPU

M68882 25mhz FN-PLCC	35.95
M68882 33mhz FN-PLCC	39.95
M68882 40mhz RC-PGA	55.95
M68882 50mhz RC-PGA	69.95
M68010 CPU	15.50
68030RC 40mhz	75.95
68040RC 25mhz	95.95
Crystal Oscillators	8.95

QuikPak

	The second second
Internet Starter Package 1	27.50
A4060T 060/50mhz Accel.	27.50 879.00

83.95
88.95
98.95
78.95
78.95
88.95
88.95
149.00
19.95

el_kke

SpitFire SCSI II Card	79.00
Rapidfire SCSI II Card	135.00
MegaChip for A500/2000	185.95
MultiStart II for A500/2000	25.95
3128 Expansion Board	189.00
Cobra 33 for A1200	149.95
Cobra 40 for A1200	195.95
Ferret SCSI II for A1200	89.00
The Clock for A1200	13.95

Apollo

239.00
759.00
129.00
299.00
449.00
849.00
629.00
179.00

Phase 5

Blizzard 2060 ERC for	r A2000
CyberVision 64 3D for A30	000 & A4000
CyberStorm II 68040EF	RC 40mhz
Available Soon	1
CyberStorm Mark II	899.00

CyberStorm Mark II	899.00
CyberStorm SCSI Option	199.00
CyberVision64 Memory	79.00
CyberGraphics Software	49.00
Blizzard 2060 Turbo	899.00
Blizzard 1230 IV Turbo	269.95
Blizzard 1260 Turbo	799.95
Blizzard 1230/1260 SCSI	169.95

Modems & Telecom

79.95
199.00
149.00
269.00
44.95
7.95

Tech (408) 626-2633 Fax (408) 625-6588

BBS (408) 625-6580







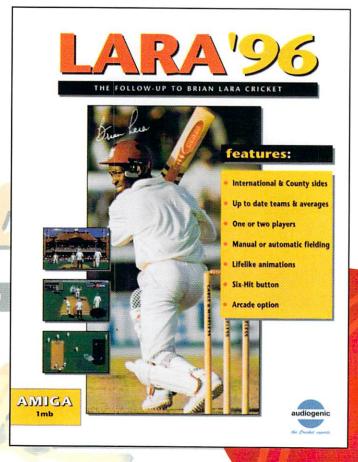
Visa, Master and Discover Card orders are accepted with no surcharge. We also ship COD only in payment of Cash, Cashier's Check or Money Order. All returns must be returned and accompanied with a RMA# within 15 days. Defective products will be replaced with the same item only. Software is non-returnable. Other returns subject to 25% restocking fee. Shipping & Handling charges are non-refundable. Price & availability are subject to change without notice. We do not guarantee hardware and software compatibility. We are not responsible for any typographical errors.

SPECIAL OFFER PRICE FOR AMIGA COMPUTING READERS!

Audiogenic cricket games are renowned as the world's best. BRIAN LARA CRICKET '96 for the Amiga incorporates some great new features many of which were suggested by users. For example, the SIX-HIT button which allows you to hit out whenever you want; USER-CONTROLLED FIELDING (optional); new VARIABLE-SIZE BOWLING MARKER underlines the difference between top bowlers and the occasional bowlers and DISK-CACHE-ING virtually eliminates multi-loading on machines with more than 1Mb of conventional memory.

PARTIAL FEATURE LIST

One or two-innings matches, limited or unlimited overs, one, two, three, four or five day matches, stoppages for rain, breaks for lunch and tea, manual or automatic fielding, return ball to either wicket, set field settings for each bowler, fields automatically swap for left-handers, spin, swing and fast bowlers, bowl over or around the wicket, left and right handed batsmen and bowlers, superbly animated batting strokes, four skill levels including new 'arcade' level, teams from all 12 World Cup countries and all 18 English counties, authentic batting and bowling statistics, declarations and follow-ons, spectacular animation and graphics include shadows that lengthen and change direction.



ONLY £19.96 (RRP £29.99) WHEN YOU QUOTE REFERENCE 96AC

OTHER RECENT AUDIOGENIC PRODUCTS Exile Discovery Disk £7.99

A chance to explore the parts most games players never reach! The data disk includes numerous saved game positions together with comprehensive hints to help you complete this incredible game. Specify whether you have the original version or the new AGA version when ordering.

Super Tennis Champs Data Disks

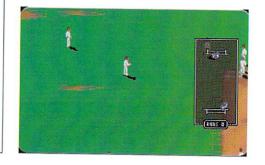
There is even more fun to be had with these add-on disks. The Women's disk allows you to play Ladies tournaments, even a Grand Slam. The Mixed Doubles disk allows you to enter Exhibition matches or a League. Just £7.99 each, alternatively get both sets on one desk for £14.99.





Order by phone on - 0181 424 2244 or send a cheque (made out to Audiogenic Software Ltd) to Customer Services (Dept 96AC), Audiogenic Software, Winchester House, Canning Road, Wealdstone, Harrow, HA3 7SJ.

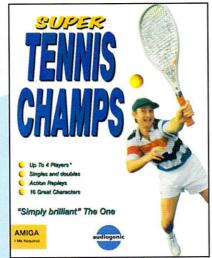
Add £1.25 per order for post and packing. Please state Amiga model when orderina



SPORTS, ADVENTURE -WHAT MORE COULD YOU POSSIBLY WANT? HOW ABOUT A CLASSIC GAME, ABSOLUTELY *FREE?

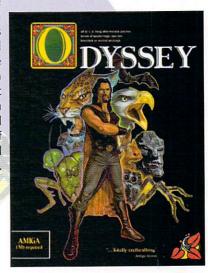
SUPER TENNIS CHAMPS

has been described as the 'Sensible Soccer' of the tennis world. It scores highest when it comes to the most important factor of all gameplay. Tennis games are usually difficult to pick up, but the intuitive controls makes this a doddle. Play singles or doubles with friends or just against the computer. Before you know it, you'll be playing at Wimbledon! For all 1Mb Amigas.

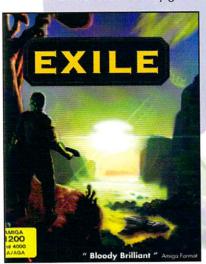


ODYSSEY continues the arcade adventure tradition but with a feel more reminiscent of Prince of Persia and

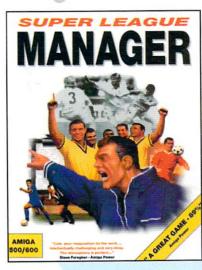
Flashback. You, the hero, explore seven mystical islands gaining magical powers that enable you to morph between different creatures, each with key features essential to the completion of your quest! For all 1Mb Amigas.



EXILE was a classic when first released and the AGA version exploded the myth that you can't have great gameplay and superb graphics in the same game. Acclaimed Game of the Year by one magazine, it is one of the few truly ground-breaking titles of all time.



The world of Exile feels so real as you are weighed down by gravity, blown around by gusts of wind and pummelled by squawking birds. In fact there are so many fascinating puzzles in this true arcade adventure that you'll probably still be enjoying it in the next millennium! Versions for A500/600, A1200 and CD32.



SUPER LEAGUE
MANAGER is a football
management sim with a
difference - it's more true
to life! Instead of providing
sheaves of statistics that
just aren't available in the
real world, you must use
skill and judgement to
turn a team of no-hopers
into a League-winning
side. Versions for
A500/600 (not 1200 compatible) A1200 and CD32.

Audiogenic Software is the **oldest** games publishers in the UK, with a history dating back to 1979 – long before the Amiga was invented. Now there's a chance for Amiga Computing readers to obtain a copy of Audiogenic's first Amiga game, Impact (published way back in 1987), totally free when you buy two or more games from this page.

*SPECIAL DEAL FOR AMIGA COMPUTING READERS!

Buy any of the four great Audiogenic titles on this page for £9.99 plus £1.25 postage and packing **per order**. Buy two or more games and Audiogenic will send you the Impact disk completely free!

Send your cheque (made out to Audiogenic Software Ltd) to:

Amiga Computing Offer Audiogenic Software Ltd Winchester House Canning Road Harrow HA3 7SJ

Alternatively phone **0181 424 2244** between 10.30am - 6pm Monday to Friday to place your order by credit card.

Please state Amiga model when ordering.

he 2D Amiga artist must have been feeling rather abandoned of late. Once catered for by the likes of incredibly good value paint programs such as Deluxe Paint and Brilliance, these champions of computer creativity ceased development when the going got tough.

Fortunately there was always a third contender for the title of top Amiga arts program. Designed by the Italian-based company Cloanto, Personal Paint has developed from humble beginnings over the years to become arguably the best painting package available for the platform.

The latest update, version 7, maintains Cloanto's attachment to stylish, novel packaging. Expecting the traditional box complete with disks, manuals, registration cards and so on, I received a tiny envelope containing no fewer than three so-called limited edition copies of Personal Paint 7. This is because it now comes packaged in a gimmicky mini-CD format. This looks really neat, but since I'm one of those unfortunates with an age-old caddy CD drive, it meant I had to fiddle around with a CD adaptor before I could boot up the program.

Perhaps a more serious fall-back associated with this format is that the only documentation to be found is stored on the CD – along with a printable registration card and trouble-shooting tips.

While the manual is actually very comprehensive and includes a tutorial that proves invaluable for the beginner, does anyone really want to have to print off an entire manual before they've even got started with the program? I suspect not, but printing it off is unfortunately preferable to trying to find your way around it on-screen, thanks to the omission of a topic index. Still, if sticking the documentation on CD helps keep the price of Personal Paint so low, I suppose most of us will be willing to make the sacrifice.

Anyone expecting a radical overhaul will be disappointed. All you'll find is the familiar tool box on the left and the perfectly functional list of menus at the top - basically the unpretentious but effective interface Personal Paint seems to have used since time immemorial.

Picture Perfect?

The ever popular Personal Paint 7 is back offering yet more value for money to those with artistic inclinations. **Gareth Lofthouse** puts Cloanto's latest offering through its paces

Typically, when it comes to most updates of Amiga software these days, the alterations in this version of Personal Paint are subtle rather

than ground-breaking. That said, if it ain't broken it don't need fixing. Instead of a new program, fans of Personal Paint will be happy to discover numerous enhancements beneath that reassuringly familiar surface.

There have actually been over 100 different enhancements made to the program, though many are of a rather subtle nature. The pri-

ority has been to clean up any remaining compatibility problems and get the interface working as smoothly and effectively as possible. Hence version 7 now automatically checks hundreds of parameters on your Amiga, adapting itself to the CPU, chip set, graphics system, memory and operating system version.

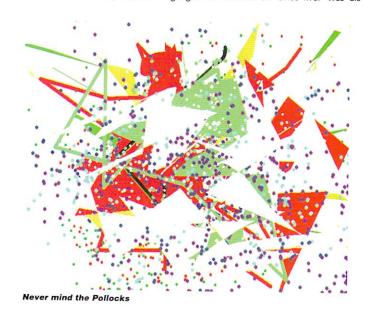
This means, for example, it will try to run in your favoured screen mode without requiring any configuration, plus it will also detect things such as whether your Amiga is using a non-standard blitter.

That said, at first the program kept crashing our A4000

everytime I tried to load it. It turned out that it was, for some reason, incompatible with MCP, the PD software we use to enhance icons and gadgets on Workbench. Once MCP was dis-



Personal Paint 7 comes with in-built ARexx scripts that are easily accessed from the tool-bar. The catalogue script, above, should prove to be particularly valuable



It remains the perfect

choice - simple, flexible

and powerful enough to

do most things you'd

expect from a decent art



The program actually includes a huge array of image processing tools, though it's not as fast as vou might hope



As usual, Cloanto continues to develop Personal Paints support for more file formats.

though it is in this respect. There are a surprising number of image processing

> from simple effects ranging lighten/darken options to applying water-colour or blurring effects to

an image. It has to be said that these are rather slower than I'd hope for, but do the job well enough.

Then there's the option to load, playback and work on animations. In Personal Paint it's possible to cut and resize animations as if they were individual frames. The Story Board, an animation editor featuring thumbnailed frames, is more powerful than you might expect in a program of this price.

Screen grabbing is also easily accomplished using Personal Paint and version 7 will now grab any Amiga OS window and transfer it straight onto a brush.

One of the most valuable improvements that has been made to Personal Paint is its increased suitability for Web-page design. Version 7.0 incorporates support PBM professional Internet features like GIF animations. A map editor has been included to develop image maps for you interactive Web pages and the program is better suited than any other Amiga art package to building Web-based designs that combine maximum image quality with a compact size.

abled we had no other problems running Personal Paint

Arguably the biggest addition to this version is the huge expansion to the program's ARexx support. Personal Paint now boasts no fewer than 180 ARexx commands and scripts can be accessed directly from a new icon incorporated within the toolbar itself. This puts batch processing power and a range of new tools at the users finger tips - not bad for £40. Incidentally, the documentation for these ARexx scripts is stored within the scripts themselves, and can be accessed equally easily from the

tool bar.

As you'd expect, Cloanto has continued to improve Personal Paint's support for an increasing number of file formats. Version 7 now supports PhotoCD, GIF, BMP, JPEG and 24-bit DataTypes. Regarding the later format, Personal Paint converts 24-bit images down highly efficiently. Furthermore, Photo-CD images can easily be converted to 256 colours and scaled to suit your chosen screen mode.

There is a new plug-in library system that makes it possible to add input/output formats for files, scanners and screens - which basically means you can create libraries to support new formats that may arrive in the future without having to wait for a new upgrade from Cloanto.

In fact, it seems Cloanto is trying to build a certain amount of future proofing into the latest version of Personal Paint. It will be possible to replace critical Amiga blitter and CPU code with a combination of 'virtual blitter' and other logic, thus making it possible to configure version 7 to optimise faster processing power even Power PC should it ever arrive.

Better still, third-party companies have already made additional tools and support for Personal Paint 7 - for instance, RBM has made the ScanQuix scanner plug-in library available. As new libraries for Input/Output formats become available, Cloanto promises to make them available free of charge at its Web-site at http://www.cloanto.com/amiga/.

Of course, Personal Paint is a lot more than a palette-based paint program, admirable

AMAZING AREXX

As has already been mentioned, ARexx support has been vastly improved. Some of these tools may only be of interest to ARexx buffs, but there are scripts provided that produce amazing effects pretty much at the click of a button. Take, for example, the Image Catalogue script, a tool that will automatically take a directory of pictures and generate a thumbnail library of pictures within about a minute. Very handy indeed!

Text manipulation scripts are also accessible from the Arexx button on the tool bar, speedily creating circular or spiralling text effects. There are also a whole host of scripts available for animation work, including Anim-GIF loaders and savers.

Perhaps to no-one's surprise, Cloanto has



Personal Paint includes image processing tools, like this water-colour effect

given Personal Paint some handy additions here, but if you didn't like it before, version 7 is unlikely to bring about your conversion. For the average Amiga artist it remains the perfect choice - simple, flexible and powerful enough to do most things you'd expect from a decent art package with a number of image processing functions thrown in for good measure.

It's good to see the program being developed at such regular intervals and Cloanto deserves a pat on the back for incorporating particularly useful new features like vastly improved support for Internet design work. The program's power can be vastly increased if you brave the hugely improved ARexx scripts as well, and Cloanto's concerted efforts to allow users to take advantage of future formats and technology is commendable.

My only reservation is that it isn't what a lot of Amiga-based artists are crying out for at the moment. Personal Paint 7 still only works with 8-bit images, limiting you to working with a maximum of 256 colours. As such, it's good, but I'd personally happily pay more if Cloanto can come up with a 24-bit offering.

In the meantime version 7 is encouraging, though, because Personal Paint has improved yet again, and with a price tag of just £40 most of us will be counting our blessings. Well worth the upgrade fee!



Ease of use

Overall

Implementation

Value For Money

88%

80%

90%

86%

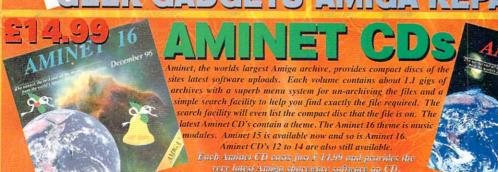
Weird Science Ltd. 1 Rowlandson Close, Leicester, Leicestershire, LE4 2SE Tel. +44 (0)116 234 0682 Fax. +44 (0)116 235 0045 email. sales@weirdscience.co.uk or tech@weirdscience.co.uk

NEW WWW SIJE NON OBEVIVE www.weirdscience.co.uk

IMPOWER PRICE

Geek Gadgets contains virtually all of the tools you need to get started programming on the Amiga, including advanced C, C++, Fortran and ADA compilers, assembler, linker, EMACS editor, "make", source code control systems (res & cvs), text and file utilities, GNU debugger, text formatters (groff & lex), and much more. Everything comes with complete source code and all binaries have been compiled from the supplied sources. All tools on the Geek Gadgets CD can be

The Amiga Developers CD from Amiga Technologies comes complet with the all the developers tools and does, provided to the official developers. Included are the complete CD32 developers tools with Build CD and ISO CD, Envoy 2.0 package. Enforcer, Wartshengh 2 (3.4) 3.4 tools and





International Distributor:



Grenville Trading International GmbH Carl-Zeiss-Str. 9

79761 Waldshut-Tiengen, Germany Tel. +49 7741 83040 Fax +49 7741 830438

Email: amiga@gtigermany.com

The Euro CD contains a vast variety of programs and data for the Amiga in the Aminet mould. However this CD differentiates itself by have the contents ready to run without dearchiving. The contents include Animations 36 negs, Commercial 21 megs, Demo's 65 megs, Disk tools 12 megs, Fonts 12 megs, tools 12 megs, Micc. 6 megs, Modules 110 megs, Music 21 megs, Micres Objects 12 megs, Music 21 megs, Micres 110 megs,



Magic Publisher



ANTHOLOGY



Meeting Pearls 4 Collection) £ 8.95

(Utilties) £ 24.95



Giga Graphics Four CD-ROMs Image Collection

24 Bit Image Manipulation



Global Experience Commercial Demos Software

24 Bit Paint Package £ 39.95

ME



Getting an Amiga connected to the Internet is one of the most difficult tasks due to the complex installation routines of AmiTCP and the lack of any real guidance. Not only will this situation change but you will now be able to get connected to the Internet and the WWW without a hard drive or the complicated setting up of the software. Our extensive networking skills have really been put to the test providing a simple connection from a compact disc providing a pleasant introduction and connection to the internet. Most of the difficult setting up is done automatically for you with the connection program provided. All that is required is the answers to a few simple questions. In addition the CD contains all the simple questions. In addition the CD contains all the tools required for both the beginner and expert, full instructions on getting connected and many very helpful documents on the Internet and WWW. The tools include AmiTCP, Mail, FTP, WWW and many more. In addition there is a section on WWW page creation with clip art and creation tools. Easy Hard Drive installation possible but not required.

Wide Web is all about, worried wide web is all about, worried about expensive connection and telephone bills, concerned that it may not be for you. Well check it out without the connection or telephone charges with 'Out-of-the-Net'. This compact disc contains the contents of actual WWW sizes for you to browse irectly from the compact disc There is a diverse variety of site: and subjects covered to give an excellent feel for the WWW whilst you browse for free. Find out about the WWW without the cost of a connection.

Art Fairy Tales Mathematics Computer
Desktop Utils
Electronics
Engineering Language: Literature Geography Health Mythology

Science Biology Books Chemistry Ecology Geology

Spelling

Music



NETWORK CD 2 WOMEN OF THE WEB

PERSONAL PAINT 7

PERSONAL SUITE CD

KARA COLLECTION

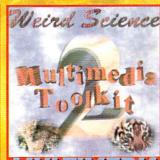


images, text, video and sound. With the new low price all users can start multimedia.





regetering for a subscription. As each new co is Released We will gharge you and dispatch your New aminet go on the day of ux release



WITH ALL ORDERS OVER **£** 25.00

WINTIWEDIA LOOFKIL S

DOUBLE CD-ROM)



התווווסה RICUE

with the superb Assassins menu system, once again improved with access to each game, it's requirements, instructions and information. The games can be played from this superb menu

COVOL 3



Volume 2









£ 19.95





Utils 2 Double CD £ 19.95



Worms Vol. 1





Unlimited

£ 19.95



£ 19.95



Movie Maker Special FX £ 29.95



Experience

Phase 4 £ 14.99 5th Dimension



£ 29.95

Experience 2 £ 19.95



NFA AGA NFA Utilitie



Backdrops CD £ 19.95





Latest

£ 14.99



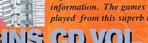
Storm

Demos £ 19.95

ENTION REGROENONS

50P EACH EXTRA ITEM. OVERSEAS IS DOUBLE. TATAL SINGT VIVE OF VIA





Images £ 9.99

Emulators

3D PD CD

£ 19.95

LSD CD 3 £ 19.95

MWB

£ 9.99

 $GF\lambda$

£ 19.95

Textures CD

Hottest 6 £ 14.99

Meeting

£ 9.99

Double CD £ 19.95



CD £ 9.99



£ 19.95



















MOVERT IN THIS MAGAZINE































ou've yet to get a modem. Perhaps you don't even want one, maybe you reckon there are better things in life and that the whole of the Net community are a sad bunch. OK, don't turn the page, in some respects I actually agree with you. But let's keep things in perspective - swimming against the tide for a valid reason is one thing, but to dismiss the whole Web/Internet thing just for the sake of it, is not so good. To start with, you stand to miss out on one of the most important open text file formatting standards ever devised.

I'm talking, of course, about HTML. As every self-respecting Web user knows it is the standardised 'hypertext markup language' used for creating Web pages. By inserting special symbols (called tags), such as to indicate bold text and to indicate the start of a new paragraph, HTML allows the display layout of what are otherwise just ordinary text files to be defined.

The hypertext label? Don't let that fool you - it just means HTML also allows you to incorporate tags that create logical links to either other parts of the same document, or to another separate document. Click on that link and you immediately move to the marked position - even if it's in another document on a computer system on the other side of the world!

In the Web context of course, HTML files are viewed with a browser (a reader program) that understands the various HTML tags and can therefore display a file in the way the author intended. The browser also provides some high-level communications facilities that enable files to be requested from remote computer systems.

So sure, in the Web sense HTML is all encompassing. What many people have missed however, is the fact the language is also ideally suited to lesser jobs.

A growing number of programs on the Amiga and other platforms (including the mainframe world) are using HTML for creat-

It's not just Web users who ought to be taking an interest in HTML. As Paul Overaa explains the, nigh-on universal acceptance of this markup language has potential benefits for everyone

ing program documentation, help files and so on. What's more, this is happening despite the fact these platforms already have their own, alternative hypertext languages for such things.

In Unix circles, HTML docs are gaining an increasing foothold and with the example closest to our hearts, namely the Amigaguide system, it's already clear interest is dying as more programmers and manual writers are realising the benefits to be had with HTML.

So why is it happening? Basically because HTML is platform independent. Files created on the Amiga for example, can be read and correctly displayed on a PC or any other computer system that has had an HTML browser/reader program developed for it - pretty much any computer platform.

For multi-platform program developers this is great - a single, platform-independent, help file language for all their products is a Godsend indeed. Similarly, the ability to accurately display a hypertext document file on any computer system regardless of what machine the file was created on has immense benefits for users as well.

Purists (and those perhaps not quite so pure) may well argue that there are a few snags. It's true - HTML is still developing so rapidly that browsers/readers, even the best, have trouble keeping up with the latest extensions.

```
Document Source
                                                                                                                                                                         <html>
<head>
<title>
</head>
                                3 Page 7 </title>
<body>
Miscellaneous extras</h2>
               href="L04P11.htm">Cursor Positioning from ARexx</a>
exactly a stunning selection of topics I know, but let's face had to start somewhere!
had to start somewhere!
href="L02P03.htm">Return to page from previous level</a>
href="L01P01.htm">Return directly to main index page</a>
Not
things
<a
<a
<hr>
<i><centre>Page last updated
16-Oct-96</centre></i>
</body>
</html>
```

All browsers allow you to view the underlying source file of a displayed HTML document

Netscape, a company who produce a popular PC browser, are responsible for creating much of the running at the moment. Almost as many extra Netscape extension tags have been defined as were originally available in the whole of the first official standard for HTML. So yes, things are still changing and there are going to be plenty more improvements in the next few years. That's not too important though - what matters is that the fundamental issues concerning the basic tag arrangements have already been put into place and these are not going to change.

EASY TAGS

As the HTML bandwagon has started to roll, a whole host of programs have appeared that allow users to create HTML files without knowing the first thing about the various tags embedded in their documents.

It's great - you write the text and, courtesy of a few mouse clicks and menu operations, the software does the rest by throwing in the tags needed to display the text in your chosen way. The snag? Using HTML is a bit like driving a car. Sure, anyone can learn to drive but even after years of driving you'll never understand why you cannot pull away in 4th gear. Learn a little about how a car works however, and such things become obvious very quickly.

From the HTML viewpoint, things are much the same and a little knowledge goes a long, long way. To start with you'll find it surprisingly easy to take a text file and manually insert a few tags that allows the file to be displayed, in very reasonable form, by a browser program - and sometimes it may only take a few minutes to do.

A few short macros written for your wordprocessor can make the task even easier and each time you create or edit HTML documents in this way you learn that little bit more.

WHERE DO YOU START?

You don't need a modem in order to get involved with HTML although you do need a Web browser. Depending on the browser you choose you may also need some support software such as AmiTCP in order for the browser to run, even in local mode.

The other thing you require is a text editor and at a pinch, ED would do. All HTML files can be viewed and edited just like ordinary (ASCII) text files (strictly speaking that's what they are). So one way of learning about HTML is to look at HTML documents created by

HARD WAY

code around the 1.3 timer device (<2 usecs) bug was removed as 1 realised that time delays of this small magnitude would never occur in practice. This version was released as MidiPlayer version 1.10.
<h3>January 94 [version 1.20]</h3> Shortly after version 1.10 was released 1 decided to spend some time adding an Intuition interface. This program was released as a Workbench runable MidiPlayer version 1.20.

Listing 1: Many of the HTML files you will find are good in the HTML sense, but are physically poorly formatted which can make them difficult to understand, even though it will be perfectly displayed on any Web browser as they are uneffected by format

other people.

But there is a minor problem here. Most HTML documentation is produced using the utilities we mentioned earlier - the ones that add tags without the user needing to worry about tag details or via a converter program that translates other tag-based hypertext languages into the equivalent HTML form.

Since the final displayed form of an HTML file is completely specified by these tags, rather than the physical layout of the text in the file, these HTML writers normally just throw the text and tags into the file in the easiest way possible (see listing 1 for an example). While this doesn't affect the final displayed layout, it does sometimes make it difficult to make sense of the file if you've

loaded it into a text editor or wordprocessor in order to learn a little HTML yourself.

The way round this is to learn a few basic HTML tags and create some example files yourself - doing it in a way that keeps the HTML stuff easily readable. All that's needed is a bit of common sense, coupled with a few style conventions. The best way of getting some of these under your belt is to take an interest in the various Web-related tutorials that are now a firm mag fixture.

I'm not contemplating any additional HTML tutorials at the moment – although I could be persuaded. My aim, quite simply, was to draw attention to the non-Web/HTML connections for any non-surfers around to prevent anyone missing an important boat.

EASY WAY

<h2>MidiPlayer History</h2>

<h3>November 92 [version 1.00]</h3>

After a few months of reading the Midi File standard, and experimenting with various possible coding approaches a preliminary Shell version (v 1.00) was created and released in order that my Midi file parsing ideas could be given some real testing.

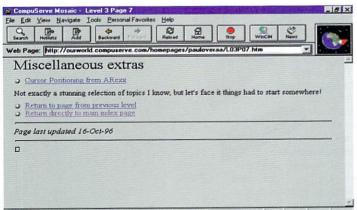
<h3>January 94 [version 1.10]</h3>

No unexpected problems had been found to date but I decided to modify the resource allocation method being used (program now uses a stack ADT based procedure). Whilst making these changes a couple of minor changes were made to the code. Firstly, the delta time delay code was placed in line (rather than being called as a function). Secondly, the code around the 1.3 timer device (<2 usecs) bug was removed since I realised that time delays of this small magnitude would never occur in practice. This version was released as MidiPlayer version 1.10.

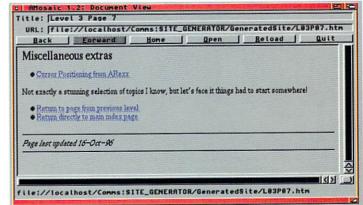
<h3>January 94 [version 1.20]</h3>

Shortly after version 1.10 was released I decided to spend some time adding an Intuition interface. This program was released as a Workbench runable MidiPlayer version 1.20.

Listing 2: The same HTML fragment written in a more easily understandable way



The great thing about HTML files is the platform independence - they can be interpreted on virtually any other computer platform you could name



You don't need a Web connection to get into HTML - just use any browser in local mode

Gareth Lofthouse and Tina Hackett take a look at why the Amiga holds the Multimedia Crown

In this month's Multimedia Madness Special we outline the Amiga's prospects at the heart of the revolution in interactive television – plus we take a look at the platform's past success as a multimedia machine. We also examine the software that made it all possible - and a future contender, HiSoft's MediaMagic



Telly Antics

o you remember multimedia? A funny question, considering multimedia is supposed to be the future for computers. But if a number of recent newspaper articles are to be believed, the multimedia revolution is already a thing of the past.

Take, for instance, a Daily Telegraph report on the problems faced by Omnimedia, one of the top AIM-quoted names in the business. Like many of the companies that found fame on the back of the multimedia hype of the early 90s, it is complaining of sluggish sales, with stock trading at an all-time low.

For the ordinary consumer, the promised land of multimedia has translated into a disappointing reality. Certainly for PC owners, it has meant little more than clumsy CD-based software combined with a sound card. The manufacturers promised all-singing, all-danc-

1997 should see the release of ED, VIScorp's much-vaunted and Amiga-based set top box.
But, as **Gareth Lofthouse** discovered, Viscorp isn't the only company hoping to spark off a mass media boom in interactive TV

ing software, but have usually delivered overpriced 'interactive' books. Hardly surprising if the public get bored or that a number of new media companies have had their fingers

In reality the story of the demise of multimedia has been greatly exaggerated. CD-Rom may have been over-rated, but other forms of multimedia have continued to evolve, particularly on

the Internet - and this is only the beginning. If everyone, from VIScorp to Sony is to be believed, the next stage in the metamorphosis of multimedia will be interactive TV.

Interactive TV is simply the next logical step for multimedia - or to look at it another way, the revolution is finally about to come of age. Interactive TV will eventually realise multimedia in the true sense of the word, combining digital television, Web-pages with embedded sound and animation, customised news services and interactive game shows. Better still, this wondrous technology will be as easy to use as your average video recorder -

or so the theory goes

The question for us, however, is what part can the Amiga play in this new development? After all, Commodore core technology



Attractive front-ends are essential for any interactive TV product, but Sega Netlink has taken a different approach. This is one of the Netlink City interfaces which will, according to Sega, make browsing the Net on your TV as easy as playing a video game. The Netlink cartridge, costing just \$199, will plug into Sega Saturns, making it a keen competitor on price. Users will need to spend \$199 dollars on the Saturn itself, though





With the aim of making the Internet as acces sible and compelling for consumers as broadcast television is today, Web TV is looking like a formidable contender. A combination of stripped down computer, 33.6k modem and "TV Lens" image enhancement technology, it has already received backing from Sony and Phillips. Web TV Network will also provide a simplified frontend to shield the user from the complexity of

hasn't advanced since 1993 and its supporters have never even been properly catered for with CD-Rom multimedia products, let alone Java, Shockwave and other trendy interactive commodities. Surely no-one in their right minds would base interactive TV systems on such an apparently out-moded platform.

Whether VIScorp's management is in its right mind remains to be seen, but that is exactly what they intend to do. With ED, the set top box, it promises to be able to out-perform rival projects while taking advantage of the Amiga architecture's unique economy. Among other things, its box will connect to a standard TV, allowing families to surf the Net, order pay-per-view shows and join in interactive games.

NO SURPRISE

That the Amiga is being used to mount a challenge in the interactive TV market shouldn't surprise anyone too much. Back when Scala coined the phrase 'Computer Television,' the Amiga was

at the forefront of the race ogy. Even now, it retains numerous advantages as a potential core for a set top box.

The fact that the Amiga is a truly multitasking computer must rate as one of the highest of these. After all, if you want to watch TV while monitoring incoming calls and searching the Net for news updates, a fully multi-tasking system is surely the logical choice.

Perhaps even more important is the fact that this multitasking OS can be compressed into just 2Mbs of RAM. Think of it like this - to become as popular as VCRs. interactive TV has to be cheap like VCRs. RAM is expensive - the less RAM you need, the cheaper it is to produce a set top box.

VIScorp's fortunes depended on the technology alone, ED would be a hard machine to better. As well as allowing access to the Internet and on-line services such as CompuServe and America Online, there are plans to make voice chat programs accessible through your TV set.

VIScorp has also drawn on a host of interface designers and technicians with TV-based backgrounds to ensure the machine will work more like a simple household appliance rather than a typical computer. Hence it can be operated via a television remote control, touch sensitive pen and an integrated microphone, as well as the more obvious keyboard.

ED has also been designed with electronic commerce in mind. A credit card reader is built into the casing itself to allow for home

> shopping and electronic banking. Combine that with what they call a 'telephony management' system (to monitor incoming calls and flash caller names on-screen) and VIScorp's system sounds rather appealing. Clearly, however, VIScorp is a

small fish compared to some of the companies now developing rival products. The industry believes interactive

TV will open up a huge new Remote controls, rather towards the new hybrid technol- than keyboards will be the market. According to the normal way of operating International Data Corporation, most set top boxes

a leading market research firm, roughly 22 million consumers will be accessing the Internet using something other than a computer by the year 2000. That puts a lot of spondulicks up for grabs.

That's why everyone from Sony and Phillips to Oracle and Sega are working towards producing their own set-top-boxes. The specifications of their machines vary, but

essentially they're based on the same idea as ED. Like VIScorp's machine, they will use the TV as a monitor, they will be as

VIScorp's ED will not only feature Internet-TV connectivity, but also a number of unique features including speaker phone technology and ar in-built interactive programme guide with one week of TV programming mapped to the local area. The Amiga OS's economical memory requirements should keep prices down, though a final price has yet to be announced



Such is the scale of the predicted market for this new hardware that even Bill Gates is sitting on the fence. He might prefer it if everyone just accessed the superhighway via the PC, but if the set top box takes off he's determined it will run on Microsoft software like everything else. Hence Microsoft's investment in California-based company, WebTV Networks, developers of set top box

Fully aware of this, VIScorp isn't seeking to challenge the big boys on its own. "VIScorp will not market its boxes on its own name,' explained Communication Manager, Jason Compton. "VIScorp is a technology holder and licensor, and manufacturers will be able to license VIScorp's technology and build their own set-top boxes. "

EMERSON

So far the most comprehensive talks regarding this issue have been with Emerson Radio Corporation, a well-known international consumer electronics company. In fact, VIScorp and Emerson signed a letter of intent back in June 96 for an exclusive distribution deal for the VIScorp set top boxes. At the time Eugene Davis, Emerson's President, was impressed not only by the Amiga-based Internet TV products, but by second and third generation prototypes Viscorp was able to show to them.

While other companies seek to sell set top boxes directly to the consumer, ED could also take a different route into your living room. "VIScorp sees a big market for set top boxes sold to cable or telecom companies for leasing purposes to their customers, Compton says: "Instead of selling a box costing hundreds of pounds to a consumer, they could lease a high-tech cable box from their provider for just a few quid a month."

All of which would sound rather promising, if not for VIScorp's increasingly intractable problems. The acquisition of the Amiga technology was almost completed by early summer, but Escom's collapse made the previous buy-out negotiations void.

Months later, it has become doubtful as to whether VIScorp can afford the acquisition anyway. Now the Amiga set top box's hopes may depend on the willingness of an alternative buyer to re-license the technology to VIScorp. Meanwhile, the likelihood of an early 1997 launch for the Amiga set tops seem to be receding. Unfortunately, Sony, Sega, Apple and the rest won't be holding anything back in the meantime.



Welcome to the Future, a lesser known company set to release a set top box called Net Vision in Spring 1997 for just \$300



ALA MM400 SCALA

Still the best multimedia development package available for the Amiga, Scala MM400 enables you to generate professional quality presentations and infotainment for under £300.

The package proved ideal for enhancing home and corporate videos and probably remains unmatched in this price range when it comes to video titling. The software also features one of the most user-friendly and elegant interfaces developed for any platform - making apparently complicated multimedia movies child's play to develop using an affordable home computer.

MM400 pushed an already unmatched product further with the introduction of ScalaType font allows This technology. Compugraphic fonts to be rapidly resized vertically or horizontally. This is aided by the software's support for a Super Hi-Res mode and the addition of enhanced anti-aliasing. AutoKerning for outline fonts removes glaring gaps between letters in title words, allowing for even more refined titling.

Scala's huge array of wipes also proves that just because you don't have a broadcast editing suite available, doesn't mean you have to produce videos and presentations with clumsy cheap-looking transitions. With MM400, for example, there are spline-based curved flyons and offs which can be applied from eight different directions.

The use of Ex's - plug in additional program modules that increase Scala multimedia functionality - is another innovative (not to say influential) aspect of MM400 and its predecessors. Ex's added support for Midi, still video, VLAB Motion, MPEG file playback and a whole host of other sources for multimedia development.

Basically, Scala set the standard with this product - let's just hope they can be persuaded to continue its development again once the Amiga's circumstances become more settled. Highly recommended if you're even half-serious about multimedia production.

Criur

EXPERIENCE

This is aimed at users with budgets that won't stretch to the justifiable, but substantial cash, outlay required for Scala products. Optonica's M.M.Experience promised to deliver a multimedia production tool on the cheap - just £40 in fact. It's certainly a lot cheaper than Optonica's previous foray into multimedia, the Interplay CD authoring tool.

As video-titling software, it has to be said that M.M.Experience doesn't get off the starting blocks. There are none of the sophisticated text effects available in Scala MM400 - in fact there isn't even the facility to type text directly on the screen.

That said, you wouldn't expect all the benefits of MM400 in such a drastically cheaper product. MM400 also falls down in a more basic area - that of the Optonica designed interface. Our reviewer found MMExperience to be rather awkward to use when it made its appearance in early

However, with 60 different transitions available, a clever and unique page effect editor and the sheer good value of a functional multimedia tool at this price all go a long way to fully redeeming Experience, despite its faults. If you just want to play around with multimedia for your own enjoyment, it would be silly to overlook this product. Ultimately, however, its long term value will depend on how well it hold its own against HiSoft's affordable new product, MediaMAGIC.

Tina Hackett and Gareth Lofthouse look at the products, projects and people that have made the Amiga Multimedia Machine number one

MAGEVISION

This is the only serious contender at the moment that could possibly steal Scala's crown for Amiga multimedia. Blittersoft combined a wonderfully simple interface with impressive program power - and all for just £150!

ImageVision's good-looking interface combines a script, tool and icon window. Like HiSoft's MediaMAGIC, scripts are built up with a sequence of drag and drop icons, each representing actions or events. Because of the clearly illustrated icons, it's immediately apparent what form a script will take as it's constructed in the working environment. Because of this, multimedia: construction and editing is a matter of swapping round the compositional elements like building blocks - it's that simple.

Organisational tools are also available to make multimedia production an even tidier affair. Group and ungroup functions, for example, allow you to represent a series of icons with a single group icon instead.

There are seven icon types included in ImageVision. Each has different properties that allow users to perform different effects in presentations or organise scripts more neatly. These include slideshow, animation and sound buttons.

It has to be mentioned that ImageVision is still in development and the original release couldn't match Scala MM400 when it came to feature packed productive tools. ImageVision comes with only 12 basic wipes, which is nothing compared to Scala or even M.M.Experience.

On the other hand, of the products presently available, you'd have to say ImageVision looks like the best hope for the future of multimedia production on the Amiga platform. Keep watching for developments.

Case Histories

HEROES

The Amiga has played a huge role in TV multimedia - from designing screen logos to acting as the centre point for a guiz show. Back in September '95 we discovered that hot shot television company, Planet 24, used the Amiga and Lightwave to create the eye-catching graphics for the likes of The Big Breakfast and The Weekend Show.

Go channel hopping and you can also see the Amiga at work on some of Granada's

award-winning drama series' like Cracker and Prime Suspect. Behind the scenes, an Amiga is needed whenever a computer screen is shown on TV because of its 50Hz video frame rate (twice the speed of a TV film camera) and its genlock ability which allows multiple computers to be synchronised - normally when a screen is filmed you get a visible flicker.

Quiz show, the Krypton Factor, also benefited from the Amiga for the scoring and control system. Contestants answered questions by pressing on touch screens controlled by an A3000.

Dhs



Contestants in The **Krypton Factor** answered questions by pressing on touchscreens controlled by Amigas

The children's museum, Eureka, used

the Amiga-based system, InVideo



SCREEN BONANZA

As I'm sure most of you know, the Amiga has been used to produce some of the most famous hits of the big screen. One of the most celebrated of all Cinema idols is James Bond and for for his most recent escapade, GoldenEye, an Amiga was used to produce some spectacular effects. Take for example the scene where MiG-29's are flying in from all over the place - this was a special effect produced with Lightwave.

Oscar winner, Nick Parks and Aardman Animations created the much loved clay characters, Wallace and Gromit, with the help of an Amiga too. A4000's

were used to help the animation process.





AT THE MUSEUM

Museums are no longer the sombre grey buildings of old, with dust covering crusty boring exhibits and threatening signs saying "Do Not Touch". They are interactive, bright, colourful places where learning is aided by computers - in particular, the Amiga. One of these was the Imperial War Museum.

We wnnt to visit and we were greeted by two ominous cannons and a rather grand domed shaped building with huge stone pillars adorning the entrance. Inside however, amongst the exhibits of tanks, guns and the usual paraphernalia there were TV screens running Scala's Infochannel as well as a Scala driven touch

screen display. Also we discovered that White Knight Technology's

Broadcaster Elite helped compile the museum's film footage for a mock wartime cinema

Another museum that benefited from the Amiga's multimedia talents was Eureka hands-on learning museum for children. Using a system called In-Video, developed by 70's pop supremo Dean Friedman, children can interact with an exhibit called Dreams. When a child walks in front of a monitor, their image is picked up by a camera and digi tised onto the screen. Virtual balloons, for example, float past and the child can "touch them - the computer picks up on this on and pops them.

Those who have visited the London Transport Museum will have seen the Amiga at work. The museum aims to absorb people in a fascinating time warp which tells the story of how people, past and present, travelled round the city. Aided by 65 CD32's and three high-powered Amigas, visitors can read information from various monitors and touch screens dotted around as well as learning about the development of the London Underground from an interactive hypermap. What is particularly stunning is a 1938 train cab simulator where the front window has been replaced by a screen and the visitor gets to control the train as it speeds down the tunnel (all controlled by an A4000).

MERGENCY SERVICES

It's not just in the glitzy world of entertainment that the Amiga excels in - it has proved itself to be an invaluable system for the Cleveland Police and in hospitals.

Back in October 1995, the Cleveland Police Force installed an impressive multimedia system in all its stations. The system was designed to provide information on crime procedures and new legislation the officers need to know. It also meant that if there was a photo or security camera footage of a suspect it could be distributed around the whole force on computer in full colour - previously they had to rely on black and white photcopies.

It's a project that has proved itself to be highly successful - the City of London police have followed Cleveland's lead and have installed such a system. Also a number of other Police Forces, local councils and fire fighting departments are awaiting funding decisions after which they too look likely to opt for similar Amiga-based systems.

Hospitals and doctors surgeries also have a practical and cost-effective solution thanks to a project called The Health Channel. Patients waiting in doctor's surgeries can watch informative videos on public health and the surgery's facilities which has been put together on Amigas

It's a fast and flexible solution that proved invaluable when meningitis broke out in Coventry and warning symptoms and advice had to be given out quickly. Where a surgery needs to edit the video, they can buy an Amiga as well which lets them change the information as they need it - one hospital even uses it to tell patients when to move into the correct departments.



AMIGA COMPUTING FEBRUARY 1997

here is no doubt that in the past, Amiga users have been spoilt when it came to affordable multimedia packages. To this day, no other platform can offer better value for combining video, sound, animation and text together into a seamless interactive presentation.

Worryingly, the erstwhile champion of Amiga multimedia known as Scala has been rather quiet of late. Understandably it has decided to concentrate on establishing its expertise in the PC market, while new Amiga software updates have been put on a back-burner while the platform's future remains uncertain.

There is, however, good news for those of us awaiting a more modern yet highly affordable multimedia product. HiSoft now plan to release MediaMAGIC early in the new year at the cost of £70 and a sneak look at the software suggests it

might just be what we've been waiting for. HiSoft promises to deliver a product that will simplify the process of developing interactive multimedia. Presentations in MediaMAGIC are created using a simple, intuitive interface and the

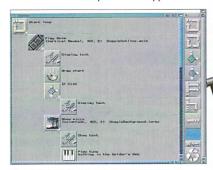
software has been designed to give individuals

optimum flexibility when developing projects. As with Scala software, presentations in MediaMAGIC will be represented by a script which in this case is created using simple symbols. There are symbols representing a wide range of actions and events, allowing for an almost click-and-play approach to multimedia design.

Using these action symbols, for example, it will be possible to create simple slide shows in which pictures are linked by fade and wipe effects. More ambitious users, on the other hand, will be able to develop far more complicated presentations with a combination of the loops, conditional branches and subroutines featured in MediaMAGIC.

The program's interface is essentially based on two windows - a Toolbox window and Work window. It's the Work window, divided up into a grid of squares, which will allow users to create a script and edit the sequence of events. The basic process should be easy enough, since users simply have to drag icons from the toolbox and place them in the Work window from the top downwards, thus creating a sequence of events for their presentation script. As a further plus point, the editor windows will be compatible with graphics cards, allowing you to use high resolutions to increase on-screen work space.

MediaMAGIC promises to be more flexible than a simple sequential list of events, however. A 'Parent-Child' concept has been applied to the



MediaMAGIC's drag and drop interface means you'll be able to put professional presentations together in a few minutes



The program will feature several built-in special effects that can be applied to animations, pictures, brushes and text



HISoft's multimedia maestro will support all the popular sound module formats and IFF-8SVX sample can be faded in and out in time to your pictures and animations

Nagical Presentation

HiSoft is set to revitalise accessible multimedia on the Amiga with the imminent release of MediaMAGIC.

icons which will allow you to generate conditional scripts. Conditional scripts are set up using an 'IF' icon (The Parent). Only when the 'IF' conditions are met will the 'Child' sequence of icons (and thus events) be executed. Actually this sounds reminiscent of Blittersoft ImageVision, though whether it works in the same way remains to be seen.

It will also be possible to edit several scripts simultaneously and multitasking is fully supported by the program. In fact, two windows can be used to edit separate scripts at the same time, copying icons from one to the other.

A final point about the editor - it will display thumbnails of the pictures actually within the working environment, allowing users to shift pictures around without confusion.

Design flexibility seems to have been paramount in the programmer's mind, with the introduction of options to define both local and global variables for use in each script. Local vari-

ables are available only in certain parts of the script, while global variables are valid for the entire script.

Subroutine modules will also be available allowing users to re-use frequently required sequences in a presentation as conveniently as possible. This should dispense with the need to recreate models or copy them repetitively.

Simple presentations are probably most useful for illustrating business data and information for work colleagues and clients. With this in mind, a chart editor will be available allowing users to generate charts from within MediaMAGIC itself. Line charts, bar charts, pie charts can all be knocked out using a simple interface and there are options to alter colours, positioning and the orientation of a diagram.

All in all, MediaMAGIC is shaping up to be an excellent and affordable multimedia product and one that may provide a viable alternative to Scala MM400 to the Amiga enthusiast.

SUPPORT ECIALISED

One of MediaMAGIC's selling points will be its in-built support for a broad range of file formats, allowing users to include a great range of varied source material for their presentations. MediaMAGIC will load and display the following:

IFF-ILBM data formats, including ILBM-24 (which it converts on-the-fly to HAM-6 or HAM-8 depending on whether the AGA chipset is present).

IFF animations in the Anim-5, Anim-7 and Anim-8 formats

MediaMAGIC also supports 8SVX sound files and common music modules including Soundtracker, Protracker, Noisetracker, Octamed and Octamed Pro.

K

The Internet is a whole new world of exciting things just waiting to be discovered. Providing, that is, you can get through.

caren aims to connect you first time, every time.

Here at NETCOM, Karen makes sure you do just that. You see, she helps us to operate more modems per customer than other Internet Service Providers – which means you should never hear the engaged tone.

Our huge web cache in Bracknell (which is packed with all the most popular sites and games) also means you don't end up trying to connect to the same server at the same time as six million other surfers.

You'll also always be able to get through to our helpline if you get stuck, as our technical support staff are here 24 hours a day, 365 days a year.

Karen and her modems also save you money. Because they're the fastest available, you'll spend less time on-line downloading files and so have smaller phone bills. Not that you'll be spending a lot of money; all we ask is a flat fee of just £14.95 a month (including VAT) and you can have your first month for a special introductory price of just £5.95.

If you'd like to get more out of the Net with NETCOM call, fax, apply at our web site or send us the coupon below. We'll then send you your free copy of NETCOMplete Amiga that'll have you better connected within 10 minutes.



Call: 0800 973 001 Fax: 0645 123 512 Apply at: http://www.netcom.net.uk

The Internet people it's easier to get on with

I'll be using the Net for	The state of the s	Amiga on diskette. When I register, I will receive my first month for £5.95. and completed coupon to: Netcom Internet Limited, Freepost TK 2238, Box 512,
Name: Mr/Mrs/Miss/Ms _ Address:		NETCOM and NETCOMplete are trademarks of NETCOM On-Line Communication. Services Inc. All other brand names and trademarks are fully recognised as the property of their respective owners.
Postcode:	Telephone:	From time to time we may pass your name on to other, carefully selected companies who may wish to mail you with offers. Please tick here if you prefer not to receive such information.





MAGNUM RAMS CARD

SPEED INCREASE OF 2.3 TIMES - 2.88MIPS • AVAILABLE WITH 0, 2, 4 OR 8MB OF 32-BIT RAM INSTALLED • USES STANDARD 72-PIN HAMI INSTALLED + USES STANDARD IZ-PIN
SIMMS + OPTIONAL PLCC TYPE FPU
(FLOATING POINT UNIT) + BATTERY BACKED
CLOCK/DALENDER + FINDER CUTOUT TO HELP
INSTALLATION + TRAPDOOR FITTING - DOESN'T
VOID WARRANTY + OF-4MB - PCMCIA
CONNENTING (FOR USE WITH OUTERDOOR) COMPATIBLE (FOR USE WITH OVERDRIVE, SQUIRREL ETC.) • ZERO WAITE STATE DESIGN

Satrurn

External 1Mb Floppy Drive for all Amigas

HIGH QUALITY SONY DRIVE • ROBUST
METAL CASE • ANTI-CUCK AS STANDARD
 ENABLE/DISABLE SWITCH • LOW POWER
CONSUMPTION • THRU PORT FOR EXTRA

OR £59.99 WITH POWERCOPY PRO 3 - THE BEST BACKUP SYSTEM

DISK SUITE

3 GAMES

COMPATIBLE

WITH ALL AMIGAS

OPUS 4.12

MAGNUM 68030/68040 & 68060 CARDS SPEED INCREASE OF UP TO 27 TIMES • 68030/40 OR 60 PROCESSOR RUNNING AT 25/40 OR 50MHz

(NEW PROCESSOR CHIP - NOT OVERCLOCKED) . MMU IN ALL PROCESSORS • UP TO 32MB OF RAM CAN BE ADDED
• KICKSTART REMAPPING • OPTIONAL SCSI-II INTERFACE CAN ACCOMMODATE A 72-PIN INDUSTRY STANDARD SIMM 68040/60 HAVE BUILT-IN FPU, 68030 CARD HAS OPTIONAL PLCC/PGA TYPE FPU (FLOATING POINT UNIT)

BATTERY BACKED CLOCK/CALENDER ◆ TRAPDOOR FITTING - DOESN'T VOID WARRANTY ◆ PCMCIA COMPATIBLE SO YOU CAN STILL USE PRODUCTS SUCH AS OVERDRIVE HD OR CD/ZAPPO CD-ROM

LOWEST EVER	FREE	PRODUCTS	OR SOURDEL & ZERO WAITE STATE DESIGN			
PRICES	OMB DELIVE	4 _{MB}	8мв	16мв	32 _{MB}	
RAM8	£49,00	£89.99	£119.99	N/A	N/A	
RAM8&33MHz FPU	£7999	£119.00	£149.99	N/A	N/A	
68030/25MHz&FPU	£99.99	£139.99	£169.00	£209.99	£279.99	
68030/40MHz	£129.99	£169.99	£199.99	£239,99	£309.99	
68030/40MHz&FPU	£149,00	£189.11	£219,00	£259m	£329,91	
68030/50MHz	£169m	£209,99	£239m	£279m	£349.00	
68040/25MHz	£249.99	£289.99	£319.99	£359,00	£429.99	
68040/40MHz	£329,00	£369,50	£399,00	£439.99	£509m	
68060/50MHz	£499,99	£539,99	£569.11	£609.99	£679.00	

SCSI-II Interface for the Magnum 68030/68040 & 68060 Cards - Warranty safe installation, supplied with software - £79

TURBOPRINT 4.1 IF YOU HAVE A PRINTER YOU MUST GET TURBOPRINT 4.1. IT RADICALLY

ENHANCES THE PRINTOUTS YOU NORMALLY GET BY REPLACING THE AMIGA PRINTER SYSTEM WITH THE FASTER AND VISIBLY BETTER TURBOPRINT SYSTEM. OPTIONS INCLUDE POSTER PRINTING, COLOUR CORRECTION, DITHERING COLOUR

BALANCING, ON-SCREEN PREVIEW AND MUCH MORE... MOST PRINTERS ARE SUPPORTED -CALL TO CHECK. AMIGA SHOPPER 90%.





QUARTERBACK

OTHER PRODUCTS A500 512k RAM Expansion £17,99

A500PLUS 1MB RAM EXP. £24.99

A600 1MB RAM EXPANSION £24.94

ALL WITH A FREE OPUS 4 WORTH OVER £50

ALL SIMMS ARE NEW AND HAVE A TYR WARRANTY

£70

£110

£180

4MB 72-PIN SIMM

8MB 72-PIN SIMM

16мв 72-PIN SIMM

32MB 72-PIN SIMM

THE CLASSIC QUARTERBACK 6.1 AND QUARTERBACK TOOLS DELUXE ARE BACK ON SALE. CONSIDERED BY MOST AS THE DISK BACKUP AND DISK RECOVERY PROGRAMS WE HAVE AVAILABLE. FOR A LIMITED PERIOD, THE TWO PACKAGES COMBINED AT AN UNBELIEVABLE PRICE COMBINED AT AN UNBELIEVABLE PRICE (NORMALLY £79.99). DISK BACKUP AND DISK RECOVERY/OPTIMISATION ARE TWO KEY TASKS THAT JUST SHOULDN'T BE LEFT TO INFERIOR PD ALTERNATIVES. 315um GET THE BEST 23449 £ 29.9 GET THE QUARTERBACK DISK CONTE GET THE

EASYLEDGERS 2 - THE ONLY BASED ACCOUNTS SYSTEM, AMIGA FORMAT GOLD

CALL ABOUT TRAIL OFFER HARD DISK & 119.

33MHz FPU Krt - PLCC TYPE FPU & CRYSTAL - WILL FIT MOST CARDS - CALL TO CONFIRM.

Disks

50 DISKS & COLOUR LABELS £14. 100 DISKS & COLOUR LABELS £24.5

Fax Software Solution for all Amigas with a Madein SEND FAXES TO AND FROM YOUR AMIGA. EVEN FAX DIRECTLY FROM YOUR

APPLICATION.

AMIGA FORMAT GOLD AMIGA COMPUTING 9/10
FAX COMPATIBLE

£44.99

560 DPI MICE & MATS for all Amiga: & Atari ST:

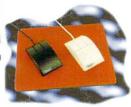
C= 281818 Language and

and the

DRIVER DISK

AWARD WINNING 560DPI RESOLUTION • 90% RATING IN CU AWARD WINNING SOUDH RESULTION * 90% RATING IN OF AMIGA * MICRO SWITCHED BUTTONS * AMIGA/ATARI ST SWITCHABLE * ALL 3 BUTTONS CAN BE USED WITH MANY PROGRAMS SUCH AS DIRECTORY OPUS 5

BEIGE £12.99 BLACK £14.99 MAT £2.99 OR £1 WITH A MOUSE





FREE AMIGA



THE DEST JUST GOT BET ICHT AFTER 12 MONTHS OF FURTHER

DEVELOPMENT DOUS 5.5 IS NOW READY AND SHIPPING. STUMING NEW FEATURES INCLUDE:- ◆ ICON ACTION

MODE ◆ WORKBENCH REPLACEMENT MODE DRAMATICALLY ENHANCED ◆ OPUSFTP CAPABILITY TO ACCESS

INTERNET FTP SITES WITH A LISTER ◆ BORDERLESS BUTTON BANKS ◆ FILETYPE-SPECIAL POP-UP MENUS

CVERERDAPHICS RTG SUPPORTED ◆ INDEPENDENT HOTKEYS → SCRIPT SYSTEM TO EXECUTE COMMANDS UPON

EVENTS ◆ MULTIPLE CUSTOM MENUS WITH SUB ITEMS ◆ AUTOMATIC FILETYPE CREATOR TO CREATE AND TEST

FILETYPES WITH EASE . A FONT VIEWER . LISTERS FIELDS FOR TITLES, RE-SORTING BY FIELDS, PLUS A VERSION FIELD FOR ITILES, RELUS FOR ITILES, RE-SOURING BY RELUS FOR ITILES, RESOURCE BELLOS FOR ITILES, RE-SOURCE BELLOS FOR ITILES, RE-SOURCE BELLOS FOR IMAGES WITH SUPPORT FOR CUT, COPY AND PASTE IN GADGETS & LISTERS + RESZE, ICONIFY, AND SCROLL BUSY LISTERS WHILE BUSY ICON AND LISTER SNAPSHOTS ARE STORED SEPARATELY FROM WORKEROH - SO YOU COLUL SNAPSHOT YOUR CD-ROMI CONSI LISTERS CAN NOW DISPLAY A BACKGROUND PICTURE/PATTERN

Internal Opus CLI to quickly test commands & ARexx

INTERNAL UPUS CLI TO QUICKLY TEST COMMANDS & AREXX SCHIPTS • MANY NEW INTERNAL COMMANDS AND SCHIPTS • MANY NEW WITERNAL COMMANDS AND MANY NEW AREXX COMMANDS HAVE BEEN ADDED OR SCHENDED WITH NEW FEATURES, YOU CAN NOW EVEN ADD YOUR OWN INTERNAL COMMANDS!

**TOTAL COMMANDS & AREXX COMMANDS & CO

640mb £149.99

INCLUDES BRACK-IT SYSTEM (HORM, £35) & UK DELIVERY

1.0_{GB} £ 79

1.6_{GB}



YES, AT LONG LAST, A PROFESSIONAL WAY TO INSTALL A HIGH TES, AT LUNG LAST, A PROFESSIONAL WAIT TO INSTALL A HIGH CAPACITY HARD DISK WITHOUT CARDBOARD & GLUE! OUR PACKS OFFER YOU OUR EXCLUSIVE AND COPYRIGHTED BRACK-IT 1200 FITTING SYSTEM & A CHOICE OF HIGH SPEED/LOW COST HARD DISKS.

BRACK-IT 1200 FITTING SYSTEM

NEED THE DRIVE INSTALLED BY A PROFESSIONAL ENGINEER? OUR COLLECTION DESIGNED TO ACCOMMODATE THE NEWER DRIVES ON TH MARKET OFFERING HIGH CAPACITY & SPEED AT GREAT PRICES. OUR PACK INCLUDES ROBUST STEEL FITTING TO DISKS BRACKETS. ALL CABLES FOR POWER AND DATA, INSTRUCTIONS & 7 DISKS

FULL OF HOT SOFTWARE SUCH AS DIRECTORY DRUS 4.12 (WORTH E5D), MUI 3, MCP, GALGAA AGA, VIRUS CHECKER, MODS, REDRIG, ABACKUP AND MUCH MORE. ALL SOFTWARE CAN BE INSTALLED WITH OUR CUSTOM CLICK 'N' GO SYSTEM. ALL DRIVES ARE PRE-INSTALLED WITH HE SYSTEM SOFTWARE & ABOVE DISKS – UNLIKE OTHERS WE PROVIDE THE DISKS JUST IN CASE! RTH F50) MIII 3 MCP

PG TASK 4.0

AN AMIGA WINDOW, USE VOUR AMIGA HARD DISK, RUN WINDOWS 3 & MS-00S, VERSION 4 NOW ALLOWS:
486 EMULATION, CD-ROM SUPPORT, CYSERGRAPHICS SUPPORT & MARY INTERNAL SPEED ENHANCEMENTS. V4.0 PROCESSOR OR BETTER.



£219.99

EPAIRS by Qualified Technicians

ALL AMIGA COMPUTERS COVERED
PRICES FROM AS LITTLE AS £29.99
MANY REPAIRS BY WIZARD REQUIRE NO PARTS PRICES INCLUDE INSURED COURIER COLLECTION & DELIVERY, LABOUR, FULL DIAGNOSTICS, SERVICE, SOAK TEST & VAT.

FAST TURNAROUND ALL TECHNICIANS ARE TRAINED & FULLY QUALIFIED.

UPGRADES BOUGHT AT SAME TIME FITTED FREE!
 90 DAYS WARRANTY ON ALL REPAIRS

ALL FOR JUST £29.99 + PARTS

Insider Guide - A1200 Insider Guide - A1200 Next Steps Insider Guide - Assembler Insider Guide - Disks & Drives Insider Guide - Workbench 3 A to £14.95 £14.95 £14.95 £14.95 £14.95 TOTAL! AMIGA - WORKBENCH 3
TOTAL! AMIGA - AMIGADOS
TOTAL! AMIGA - AREX £19.99 £21.99 NEW £21.99 £24.99 TOTAL! AMIGA - ASSEMBLER

MASTERING AMIGA SCRIPTS £19 95 MASTERING AMIGA BEGINNERS
MASTERING AMIGA PRINTERS
MASTERING AMIGADOS 3 - REFERENCE
MASTERING PROGRAMMING SECRETS

AMIGADOS PACK
TOTAL! AMIGA - AMIGADOS & MASTERI
AMIGADOS 3 - REFERÊNCE USUALLY £43.94
- SAVE NEARLY £9 £34.99

A1200 BEGINNER PACK £39.95 2 BOOKS (INSIDER A1200 & NEXT STEPS), A 60 MINUTE VIDEO, 4 DISKS OF PD TO GO WITH THE BOOKS/VIDEOS CALL ABOUT 069.99

A1200 WORKBENCH 3 BODSTER PACK £39.95 2 BODS (DISKS & DRIVES & WORKBENCH 3 A TO Z), A 90 MINUTE VIDEO, 1 DISK & REFERENCE CARD

IMAGE FX 2.6

The Carelin Index Printing Selection
The BEST IMAGE PROCESSING PACKAGE
THERE IS FOR THE AVIGA. AMIGA FORMAT
GOLO - CLI WARROS. BURBLE FLOR
FIRE FX. WIRELESS HOOKS, SHEAR G
STRAW MOOSE, EMANCED LIGHTHMIN
EFFECTS, FAMBRAIN ADORFROMY,
LIQUID DISTORTION, SPONGE DRAWMOO,
SPARKE FFECT G MUCH MORE
ARE IN VERSION 2.6.





2MB & HARD DISK REG. E 179.99



FAX 01322-527810

CONTACT US ON INTERNET

BETWEEN 9AM AND 5.30PM, MONDAY TO SATURDAY, TO PAY BY CREDIT CARD. TO PAY BY CHEQUE OR POSTAL ORDER PLEASE SEND YOUR ORDER TO - WIZARD DEVELOPMENTS,

heques should be made psyable to WIZARD DEVELOPMENTS. Prices include raige to the UK mainland, Please and £5 to your order for EC destinations and bother countries. All products are subject to availability. EGDE. Advertised pri clification may change without notice. All sales are subject to our trading co-copy available on request.

PO BOX 490, DARTFORD, KENT, DA1 2UH

The New Year has inspired many of you to write in. From Spectrum classics to your dream machines, it's all here as **Ezra Surf** discovers....



GOOD OLD SPECCY DAYS





I'd like to thank you for a great article about Spectrum classic games in Issue 106. The Spectrum was my first computer and I still love it. Of course, I don't

own it today, but I have an emulator and I use it very often. I think you should print more articles about Speccy, for example about emulators, games you recommend or Internet addresses where you can find programs for an emulator.

Please forgive me if you did all this before. Issue 106 was my first of AC and I don't know about previous ones. I live in Poland where foreign magazines are very expensive. For example: Polish magazines cost about 3.5 zlotys and foreign ones 22 zlotys.

As you can see I can't buy foreign mags too often, but I do it at least three times a year. Since December '91 I was buying Amiga Action but when it became very thin (and still expensive) I started to look for another Amiga mag. Now I buy Amiga Format and Amiga Computing. I won't tell you which is better because I like both of them.

I'd like to tell you something about the Amiga situation here in Poland. Amiga is still very popular in my country. There are thousands of Amigas in Polish homes. National and local TVs use them as great graphic machines. I think that the standard Polish Amiga is an A1200 (2Mb RAM, no HDD) There are of course, better configurations (like A1200, 6Mb RAM, HDD, CPU 030) and unfortunately many old A500s

Our software firms produce many programs. We've got Polish word-processors, painting programs or music utils. We have also a lot of games like: adventures, strategy, shoot-'emups, beat-'em-ups, platform, Doom clones or even pinball games. Unfortunately, many of them are AMOS-based rubbish, but there are



real gems too.

At the moment we have only two Amigaonly magazines. First is about 'everything': hardware, software, games utils etc. Second is about games only. There are a few more mags which print articles about Amiga but they aren't for Amiga users only (but also for PC and consoles). I couldn't forget about Polish demo scene which is very large and active. There are many scene parties and the biggest is Intel Outside in Warsaw.

Piotr Szymanski Poland



Wow, we don't get many letters from over in Poland! It's interesting to hear your comments on the current Amiga Come on, write in you know you want to. The address as per usual is ESP, Amiga Computing, IDG Media, Media House, Adlington Park, Macclesfield, SK10 4NP. Doesn't matter what format you

choose - sweaty sock and Tipp-Ex (that's Neil's particular fetish), traditional biro and paper or a disk (saves my fingers) which we can return. Alternatively, E-mail us at ESP@acomp.demon.co.uk. At the moment we're lining up some software goodies for a lucky reader who writes in with the best letter.

situation over there. It would be good to get hold of some Polish software for us to review here – we've seen some interesting game demos but can never get hold of the full releases.

So you used to buy Amiga Action? Well, now you get it for free inside Amiga Computing – what more could you ask for? Are we your favourite magazine now? We must be surely....

CALLING ALL READERS

Would you be interested in getting the full version of Amiga Computing Magazine delivered straight to your computer screen? We are considering bringing out a subscription service that delivers the **current**, full magazine straight onto the Internet. No more waiting for the postman or having to walk down to the shops.

What's more, as well as getting the same content as you would in the print magazine, you will also be able to download everything that is on the coverdisks. And you don't even have to spend a fortune online to get all this — we will make it possible to download the magazine all at once, enabling you to read it at your leisure. Plus, we are considering other features including extensive review archives, Amiga-specific chat rooms and technical advice by Email columns.

So at the moment all we need to know is "Would you be Interested?". It won't happen if you're not. You're not committing to anything – all we need to get is a feel for the number of people who'd like such a service. Expected cost for such a subscription could be

between \$3 and \$5 per month depending on the number of extra features added. It will be available worldwide.

Just by telling us your opinion on this, you will be entered into a free draw where you could win lots of goodies.

Win!

Software! IBrowse and Digita Organiser Books! Internet International Directory Games! Pinball Illusions, Pinball Mania, Pinball Fantasies

Simply Email tinah@idg.co.uk, type in your opinion, how much you would pay for such a service and any ideas you'd like us to incorporate. Or write to AMC Online, IDG Media, Media House, Adlington Park, Macclesfield, Cheshire, SK10 4NP.

NEW AMIGA HOPES



Several of your readers have been writing in saying what they think the new Amiga should be like, so I thought I would

give it a go. Here are the main points it should include.

Big Box – The new Amiga must be a big box one. People are switching to PCs in big boxes so I do not think anyone will be put off by this. A CD-ROM and SCSI hard disk must be included as standard. Different sizes and speeds depending on the customer's requirements.

Graphics – It must still contain old chipsets (OCS, ECS and AGA) for backward compatibility but also have an improved one. It could have 32 or 64-bit palette and have bitplane and byte per pixel graphics – the latter is a must now. Also it could have some special chips in it to deal specifically with vectors and sprites thus beating PCs and competing with the best consoles (Playstation etc.) The hi-res modes could be improved and must not flicker on any monitor. This could mean Workbench could now look as good as Windows – the only bad thing about it at the moment.

Sound - Ditch the four channels. We

need at least 16-bit sound now and a minimum of 16 channels. The sound should be up there with reasonably good keyboards/synthesisers. Midi ports should be included as standard, at least two ins and outs and one thru. Also have a built in sampler directly connected to the CD-ROM so samples from CD can be obtained easily. A separate phono/aux socket should also be included for tape etc. sampling.

Modem – As it is the '90s and everything has a web site and email address now, an internal fax/modem must be incorporated. Workbench should have a browser and mail program as standard.

Memory – 8Mb is about the lowest a PC can have now so it should be the same here. Chip mem should be expanded to at least 16Mb. The motherboard could have different sockets so you could expand either your chip or fast ram.

Kickstart – As a hard disk will be as standard, Kickstart could be on this and loaded into memory on initial boot-up. This will enable upgrades to be given away on floppy disk and not expensive chips. You could have several Kickstarts on the one drive and you could choose which to load up on bootup. This would help compatibility problems.

Processor – Now here's the interesting bit. You would have a separate board containing many sockets in which you could insert various processors. This would also help degrading the machine to run old software. You could have a 68060, 68030 and 68000 all on the same board for example, and you could select which to use on booting. This alongside the Kickstarts should eliminate most problems as you could turn the machine into a basic 1.3 A500.

You could take the old processor out of your old machine and have it in the same box instead of having to set up your old Amiga whenever you want to play an old game which only loads on an A500. Oh also the machine should contain a Pentium processor. yes, I know it's bad but let's live in the real world now. A plain Amiga will not sell no matter how good it is, but a hybrid – now you are talking.

All the old enthusiasts who had to ditch their Amiga and buy a PC can now return and enjoy the benefits of the Amiga. Workbench could be enhanced so Windows can multitask in the background. You could click a Windows icon on the WB screen so you could go and play F1GP but have an Amiga rendering an Imagine graphic in the background. It

MONEY MATTERS



In replying to many of the letters published in your mag you have often asked 'how much are you all willing to pay for an Amiga?' For example, in issue 99 (letter from Jeff

Rampe), you continued with the statement, 'I would rather the Amiga continue as a cheap, but good quality hobbyist's machine, rather than ramping the cost up to beyond PC or Mac levels.'

I agree that CD-Rom drives and big hard drives are expensive, but I have been looking through the ads in *Amiga Computing* with a view to upgrading my A1200. As with most people my funds are limited, and so getting the best deal is of the utmost importance.

The cost of the components I intended to buy totalled about £750, and I was just starting to get the cash together, when a friend pointed out that for that sort of money I could build a pretty good PC. This started me comparing prices, and after looking at the price of PC components, I came to the conclusion that Amiga owners are paying through the nose for their equipment.

I am very pleased to see that more than one company who advertise in your mag are now able to offer 4Mb simms for under £40, which must be good news for the Amiga, but I feel that this has been too long in coming.

However, there is still plenty of ground to be made up, and I feel that hard drives and CD-Roms must be very similar in construction for both machines, so why do we have to pay so much more for ours?

I don't believe that Amiga equipment is so special that it can command such a high price, and can only assume that same third party suppliers are just milking Amiga users for all they can get. I noticed recently that new tower cases are on sale for the A1200, but at what

price? £180 with no power supply unit, when for the PC. £55 with a PSU.

I realise that an A1200 tower is a different animal to a PC tower, but the point I am trying to make is that if a PC tower with a 230W PSU costs £55 why do we have to pay £60 just for a 230W PSU? This is bad news for our cherished machine, and eventually users will start to buy PCs for their ease and cheap expandability alone.

Looking at it another way, for anybody starting from scratch, it is now possible to pick up a Pentium-100 system for £800. To build an Amiga up to any sort of comparable standard, you can add my £750 to the cost of an A1200 (£300) and a good monitor (£300) and you end up with a bill for £1,350, which can hardly be called a 'cheap hobbyists' machine'.

The fault probably doesn't lie with third party suppliers, and I feel that Amiga Technologies, rather than bumping up the price by selling the machines with a large software bundle – most of which many users probably don't want – should have offered a machine only option at a lower price, leaving the customer to buy such software as he feels he needs.

This you will no doubt agree with, if you take note of the number of letters you publish from users recommending all manner of software to be packaged with new machines. Surely the best way is to put large numbers of machines in circulation, and so given software houses greater incentive to write more and better software for them.

This brings me to my third grumble, software. Although the Amiga is well supported in many fields, many areas of computer work are poorly covered. Surely the wider the range of uses that the Amiga can be put to, the more people are likely to take the machine seriously.

As an example, one of my other interests is astronomy, and apart from a couple of very good astronomy titles, there is for the Amiga that is any good for me in this field, certainly not to the extent that PCs are supported.

So, to end what has turned out to be rather a long moan, I have to say this.

Wake up AT, the PC has come a long way recently and your machine just isn't that special these days. Third party suppliers get serious, Amiga users are not idiots you know, and we won't stand for having to pay over the top prices for our equipment.

Software houses get writing, there are a lot of users who want to do more than just play games or do a bit of desktop publishing, so spread your net a bit, and you never know who you will win over to the Amiga.

I am very fond of my Amiga, and would be unhappy to see it lost for good, but I am sure that if anything is going to kill off this machine, it will be the high cost of putting together a power machine, and the lack of varied support.

The Amiga may be a different animal, but it still has to be competitive with other machines when it comes to price, or new users will go straight to the PC market without even knowing what they could have had.

On a happier note, I don't intend to say all that grovelly stuff about how good your mag is, as no doubt you're getting sick of hearing that sort of thing by now, but I will say that I shall still be renewing my subscription to Amiga Computing, and do not intend to sell my A1200 quite yet. However I might not be upgrading it to the extent that I originally intended, as I feel that a new PC will offer better value for money, and a far wider choice of software. Let's hope somebody takes note, as I'm sure I'm not alone in my views.

Colin Reeves, Lincs.

would not slow down as they will use the two separate processors or even a third to control the multi-tasking.

The Amiga OS could also be intelligent so if a PC CD-ROM was inserted and the program icon clicked on Workbench, it would automatically switch to PC mode. It would be like having all your programs whatever the format on the same operating system. Computer novices would not be able to tell they were using two different systems. How's that for user-friendly!

Price - A Pentium PC and the best Amiga ever all in one box - well, I for one would not hesitate in parting with at least three grand!

You may think some of my ideas are a bit far-fetched but let's be honest, the current Amiga cannot survive as it is. It needs a complete facelift and more to help it. The only way it will survive is to turn it into the ultimate machine.

It must also be advertised as a PC with all the benefits of an Amiga to the PC users. Also some killer software should be written. Get a games company to write an amazing game like F1GP2, Wipeout or Doom, a music specialist to write a midi/sampler/sequencing package in one, a graphics program that does everything that DPaint, Image FX etc. do

in one and any other top of the range programs.

Give Workbench a tidy up by making it run in a better screen mode and more colours as standard and try and do to Microsoft what it did to us. Also on the subject of advertising, the biggest mistake Commodore did was ditching the Chelsea sponsorship. Look who's wearing those shirts now. The new Amiga owners (whoever it is now) should try their hardest to get the Amiga name onto the shirts of the world's greatest players like Gullit, Vialli, Zola and Scott Minto.

Gideon Cresswell Kent

PRIZE LETTER

on it's way to you!

Well, we can all dream. We just need a company with plenty of cash who will develop such a system. The

idea sounds good to me and I'm sure to a lot of people - I think we'd still have to persuade the Gates Worshippers the benefits of such a system. In the meantime though, the Siamese System provides a pretty good solution. Other than that we'll just have to wait and see what the third party development companies come up with in the way of Power-PCs.

DVERTISING STANDARDS

I cannot hide by joy that, at last, the games industry looks like it is going to do something about the offensive and frankly sick trend in games advertising that has emerged in recent months.

It really annoys me that, because Playstation games manufacturers are trying to make their products sexy and 'ungeeky' they are attempting to show the games as being slightly subversive by using dodgy adverts. Just who are these

adverts aimed at, the Playstations perfect customers, twentysomething year old lads who spend most of their time in the pub and have too much money to spend? Why else would your adverts show Jo Guest using a Battlecruiser box to cover her privates, insulting Germans (and the rest of Europe) or extolling the virtues of joyriding?

Would we put up with this sort of advertising for anything other product. I believe that we would not. Joyriders recommending the Golf GTI? I don't think so.

These games adverts may appeal to the drunken yob with too much money, but to the rest of the population they are just insensitive, tacky and indecent. Is buying computer games still considered so sad as to justify dressing them up as in your face designer accessort for the designer yob. ELSPA, get your act together and do something about these childish and insulting adverts.

Bob Innes, Halifax



Have you calmed down yet? You are forgetting one basic thing. We are privileged to live in a democracy where people can say what they like, and not have what they say or do inhibited by unnecessary censorship. Be thankful for this. What you are getting riled about is something which when put in its proper context is laughably trivial.

I will agree with your point that the ads for many new games are pretty childish and almost pretentiously in-your-face. However, having said that most of them are just a laugh. Take the advertising for 'Command and Conquer: Red Alert' . One of the posters shows various photographs of different Europeans in a variety of national dress with the captions 'Europeans; don't you just hate them?'. Agreed, the advert could easily be construed as being insulting, but it is still harmless and really takes the mickey more out of British xenophobia rather than Europeans. As much as anything I think its an issue that the games industry will sort out for itself. Once they realise that this sort of advertising is really not much more successful than any other they'll move onto some other ploy.

Some things we do need to be protected from, but on this level a ban or the like would be ridiculous. Ban guns, ban hard core porn, but don't ban adverts. Censorship is not, and never will be the answer.

YBERCAFE AND CAKES



couldn't agree more with Hugh Poynton's comments on Cybercafes (Comment page, Christmas issue). There are so many people that think the Internet is 'just so cool' and

that hanging around Cybercafe's, being Cyberpunks is the "In" thing - I mean get a life!

In principle the Cybercafe is a good idea - it's like going to an interactive library in one sense but also sociable in that you can talk to people on the net from all over the world. A bar or a cafe is traditionally somewhere you can go a be sociable - it would be a shame if this was ruined by the addition of a computer.

It's like when TVs were put into pubs. If you put some kind of soap opera on the box, people

will just sit gormlessly and watch this - however, if a football match is on it can involve everyone and become an entertaining but still sociable pastime. I'm sure you could do the same with the A bundle of software is Internet in a cafe. It can become the focal point of a bar or what-

ever without putting people into their own little worlds of Cybersurfing.

However, what I would like to see is Internet access offered a little cheaper. I believe that the Internet should be available to everyone - not just those who can afford computers and online connections.

This would attract a lot more people and then maybe this "Communications Revolution" could be just that and involve the whole of society. Martin Prentice, Glasgow

concessionary rates. However it

I agree - maybe there are Cybercafes out there that offer reduced rates at off-peak times - I know quite a few that offer

would be great if maybe they could have an open night where everyone could pop along for a cheap beer and a browse on the Web just so they can see what all the fuss is about. If anyone hears of such an event please let us know.

In the meantime urge your Cybercafe to put on some sociable events maybe live debates with other cafes or on-line games tournaments – and who knows what else with a little imagination!

If you prefer, you can send us your letter via Email. Simply point your mailer to: ESP@acomp.demon.co.uk. You could even send it in on a disk - it makes our lives easier too. Someone has to type this lot in you know!



01920 822321 Technology ALL PRICES INCLUDE VAT

2.5% Surcharge On Credit Cards NOT SWITCH or VISA-DELTA AX 01920 822302 :Mail 106010.2617@CompuServe.cor

ans From 15-64KHz For All Amiga Screen Modes and 24-Bit Graphics Cards Too £ 585 17" AMIGA TECHNOLOGIES dentical to Microvitec GPM1701 above £ 599

14" MICROVITEC (1402) scans 15-38KHz Replaces 1438, 15-Pin VGA connector £ 289 DAEWOO Monitors: for DraCo / Graphics card. Unsuitable for most Amiga screen modes As Microvitec 1402 above, but has Stereo NEW 15" AMIGA TECHNOLOGIES peakers and 23-Pin Video Connector As AMIGA TECH. 14", but Bigger! 14" AMIGA TECHNOLOGIES 15" £ 289

On - Site Warranty - Specifications Available

se built, professional, non-linear video and audio editing system which can operate at up to full broadcast quality. The

The DraCo Non-Linear Video & Audio Workstation

"Cube" style case, it has a built in 4Mb

ect 32-Bit expansion slots are provided (1 free). The DraCo is supplied with 24Mb of RAM (exp. to 128Mb

24-Bit graphics card, Fast SCSI-2 controller and Quad Speed SCSI-2 CDROM drive. 5

gies Version, with FREE BALLER GROUN CPU, FAST SCSI-II CONTROLLER Eagle Version, Available for Only £ 1.999 Niginal Amiga Technolo

2.1Gb Microp AV £ 465 4.2Gb Barracuda £949 4.2Gb Micr/Atlas £759 4.2Gb Microp AV £ 869 2.1Gb HP/IBM C 3.45 1.2Gb 1.6Gb 2.5Gb 3.1Gb

£ 7.499 + VAT (£8.811) - 11 Gb System, with 17" Monton & Joe/Shriftle

ncludes the *DraCo* Wheel (Jog/Shuttle Unit), a 17" SVGA Monitor & an Extra 16

Demonstration - Specialist Video Retailers Also Required

CCELERATORS

09089

itable input/output options. Although DraCo is designed as a Non-Linear Editing workstation, it runs many Amiga programs

empressed video, but current drive speeds limit the minimum compression to 4:1. Output is up to Broadcast Quality with

noonent YUV/RGB (Beta SP) in and out, D1, plus a P1394 DV (FireWire) interface. The system can already handle totally

ne rendering of video transitions and effects), machine control, and SMPTE Timecode.

'REE with the Draco: Art Department Professional, Morph Plus, Professional Conversion Pack, Scanner Drivers & Xi Paint.

LIGHTWAVE 3D

PC, Alpha, Power Mac or Amiga - Call Now

NETWORKING

AMIGANET Ethernet for *DraCo*, A2/3/4000 £179
ARIADNE Ethernet for *DraCo*, A2/3/4000 £179
NEW PCMCIA Ethernet Card For A1200 £149 AMIGANET Ethernet for DraCo, A2/3/4000

SOFTWARE

Envoy, Enlan, Novell & TCP/IP Network Sol

SCSI-II Controller - For Cyberstorm MK2 only 2 95

A RO

060, 50MHz Expandable to 128Mb of 32-Bit RAM

CASABLANCA Consumer Non Linear Video & Audio Editing System - Simple to use - Connects to Camorder, VCR & Television. Edit at professional mention your worn something.

CASABI ANCA

from your armchair!

Now For A Full

Our Sister Company "DraCo Systems UK Limited" Distribute MacroSystem Products to the Video Trade. 040, 40MHz As above, Upgradable to full 68060

060, 50MHz Exp. to 16Mb + 32Mb on SCSI-2 card £ 455

DV (FireWire - P1394) Option For The DraCo & call

12Mb RAM & 1Mb Graphics card. \pounds 6,225+VAT = $\cancel{\xi}$ YUV Input / Output Option For The DraCo $\cancel{\xi}$

DraCo- Budget Version - 68LC040 CPU & 6Gb Capacity DraCo Non-Linear Video & Audio Editing Workstation Full 68060, 10Gb Workstation from £ 7,499+VAT = <mark>£ 8,8</mark>1

040, 40MHz As above, Upgradable to full 68060

SCSI-II Controller For 1260, takes extra 32Mb 😢 90

ALA MULTIMEDIA 400 (AGA) CTOR BROADCAST For An

LARISSA Professional V3.0

060, 50MHz Built in Fast SCSI-II. Exp. to 128Mb £ 55 Note: OS3.1 Is Highly Recommended For 2060 £ 89.9

Vlab Motion JPEG Non-Linear Video Editing Card & 3D Animation Player for 1500/2000/3000/4000 £ 699 Toccata 16-Bit, Direct-To-Disk Audio Recording and Playback Card. Now only available with a Vlab Motion

together For ONLY £ 849

VIab Y/C Real-Time High-Quality SVHS / Hi8 & Composite Internal Video digitiser. (Zorro II)

Why Not Call Us For Further Information

SAVE UP TO £450 ON PREVI

040, 40MHz As above, Upgradable to full 69060

IONUMENT V2 DESIGNER - Titler ONUMENT DESIGNER (For MovieS IONUMENT Creative Set

ONLY £ 299 (INC. P&P)

FOR A1500 / 2000 / 3000 & 4000 BERVISION 64/3D FAST 64-Bit

& 1 Parallel Port. Suits BBS's 57 ione Cables + PSU £ 11 X-LINK 28.8K Bau OWER CASES - Ea Stemal Fax/Moden Scan Doubler For CV 64/3D orro II / III, with CyberGraphX CARD With 3D

PICASSO IV (NEW) 4Mb - Zorro II / III

14000 230W PSU 7 ZO entium card slot

RENDALE 8802FMC Comp. RENDALE 9402 VIC Only

2 745 01A 1500 Comp. + Dissolve etc. £ 175 IAMA 292 Composite & Y/C HAMA 290 Composite & Y/C

LOLA 2000 Y/C & Comp. Quality £ 349 Details Of The Above Genlocks Are Available On Request Gives UHF, 3xComp & 1xY/C out £ 149 OLA Video Options Card for A4000

AR (Amiga /PC)
AR Capture Card REMOVABLEARCHIVE STORAGE MEDIA

ZIP DRIVES

2 159 100MB ZIP CARTRIDGES (Pack 5) £ 85 100MB SCSI External ZIP Drive

PVR PC/Alpha PCI £ 2,339
PVR Capture Card £ 1,169
SPEED RAZOR III NT Only

Non-Linear Software £ 1,399

JAZ DRIVES

1GB SCSI Int. JAZ Drive + 1 Disk £ 399 1GB JAZ CARTRIDGES (Pack of 3) £ 249 1GB SCSI Ext. JAZ Drive + 1 Disk 1GB JAZ CARTRIDGES (Single)

At Very Low Prices

DAT DRIVES

1GB JAZ CARTRIDGES (Pack of 6) £ 489

2Gb DDS & 4Gb DDS2 Type, SCSI-2 Int. & Ext. Drives & DAT Tapes Available Call

BACKUP SOFTWARE

AMIBACK 2 Ultimate Backup Utility £ 39 **DIAVOLO PRO** Also Backs-Up MovieShop Projects For VLab Motion Users

IIBA / PANASONIC SCSI-2 (Internal) 8x Speed, Multi-Session (tray load) 2 15 4x Speed, Multi-Session (tray load) 2

01920 822 32

LE / EQUIVALENT SCSI-2 (Internal) GOLDSTAR / Equivalent ATAP I (Internal) 4x Speed, Multi-Session (tray

White Knight Technology

HITACHI / Equivalent ATAPI (Internal), 8x Speed, Multi-Session (tray load) 2 99

9.30 - 5.30 Monday - Friday P.O. BOX 38, WARE HERTS, SG11 1TX, UK

AMOS TROUBLES

I have owned an A1200 for the past two and a half years and have recently added an internal hard drive and a Hawk RAM board. I am the father of three children so I decided to buy some educational software.

I chose 10 programs from the 10 out of 10 and ADI range. I found the 10 out of 10 programs crashed after about an hour of use while the ADI programs ran fine. I also had problems using Easy AMOS and Mini Office, both of which crashed after about a hour of use.

When the RAM board was fitted the problem became worse. The above program would only run for five minutes and certain 10 out of 10 programs would not work at all. I have no problems with programs like DPaint, Wordworth and Final Writer, these can be left on all day and do not falter.

M. Roberts, Hull

I hate to say this, but as far as I know there is nothing you can do. There seems to be a general problem with certain AMOS programs and AMOS itself with Amigas that have the AGA chipset. This results in the program crashing if the computer has been on after a certain amount of time. When you add extra memory this problem is exasperated and results in the program crashing almost straight away.

About the only thing I can suggest is you try turning the cache off in the early startup menu, accessed by holding both the mouse keys down when you reset the machine. As far as I remember this does not have an effect but may help with the 10 out of 10 and ADI programs. Basically if you want to use these programs you will have to remove your memory expansion.

CABLE CAPERS

I bought an Amiga Technologies 1200 with a 170mb hard drive six months ago for myself, my husband and son. I have been very impressed with it so far, but I really need your help with a problem.

I have bought a bare tower from ICS with a 220W PSU, dual device and CD-ROM. After opening the computer case and disconnecting the internal 2.5" hard drive so as to house it in the tower I realised the cable I have is for a CD-ROM and 3.5" hard drive.

Is there any way I can get a cable that lets me use my 2.5" hard drive internally in the

A1200 or tower as well as the CD-ROM. I appreciate any help with our problem.

L Wylie, Scotland.

There is no reason you should not be able to hook up your drive, it is just a matter of getting the right

cable. This is where any possible problems lie. If you want to keep the hard drive internal to the A1200 then you need a 2.5" IDE cable with two 2.5" inch connectors and a single 3.5" connector to link it up to the tower. You will have to contact ICS – they should be able to sort you out with the correct set of cables.



If nothing else, we can cure your Amiga problems

FAILING 040s

Since buying recently a 40Mhz Apollo 1240 accelerator I have been dogged by certain programs that ran perfectly before hand, but now blankly refuse to run.

I have installed the 68040 library that comes with the board but this does not seem to have made any difference. I have noticed however, that if I start my machine with certain public domain CDs the programs I have problems with run fine.

Having used SnoopDOS to see what these programs are doing, it seems they are failing when they try to load certain maths libraries. Having checked the versions on my machine against the ones on the CDs it seems that the ones I have are the more recent, so what is going on?

D. Chumly, Averton

There are three things you can do to try and get rid of this problem. Any programs written in the last four or five years should have no problem running on the

68040 processor.

The first step you already have done – making sure you have the 68040.library copied to your libs drawer. This patches various parts of the operating system, mainly to do with math operations, and avoids certain problems associated with the 040's FPU.

Secondly, make sure you have the latest version of Setpatch, more recent versions included additional patches that make the maths libraries work correctly with the 040. The easiest way to check is – once Workbench has loaded, open a Shell and type Setpatch. When you hit return a list of all the patches should appear, if this does not include 68040 support code loaded then you need to get hold of a newer version that adds this 040 support. The latest official version that I know of is 40.16 and is the one you should try to get.

If this fails I would try replacing your maths libraries with the original ones from the Workbench disk, I'm sure you have tucked these away in a safe place for just such an occasion. It may seem odd doing this if you have more recent versions, but you never know the new version could have introduced a new bug or they may just appear to be incompatible when programs come to load them.

POP, THERE'S YOUR MAIL

Regarding you saying that "If you are using an Internet account with an SMTP mail server you are better off sticking with AmiTCP, at the moment anyway. As you would have no way to retrieve you mail, unless someone out there knows different."

Well, I use TermiteTCP and have no problem receiving my mail – that is what mail programs are for. I currently have 2 mail programs: AEmail and Yam 1.33 and have no problems receiving or sending mail with either one. Don't you also need a mail program for

AmiTCP to be able to get and receive mail?

Knut Koen, kkoen@flash.net
Does your ISP have a POP or a SMTP
mail server? With a SMTP server the
mail would normally be automatically
downloaded to your machine by a
deamon running in the background,

which neither TermiteTCP or Miami currently have although there is no reason why they could not. With a POP mail server you would normally use your mail package, Yam is a very good example, to fetch the mail off the mail server. Now-a-days just about all ISPs do use POP mail servers, the only reason it is a bit of an pain in Britain is that Demon, the largest ISP, use to only offer SMTP mail but now have finally got around to providing a beta test POP server who's address is sdps.demon.co.uk. So finally if you have had enough of AmiTCP Amiga Demon users can make the switch.



Making getting on-line easy peasy, Miami and TermiteTCP are great

WRONG, AGAIN

I recently bought your December issue and in the ACAS section of your magazine I found an article that caught my eye: Snapy Upgrades. I then began to read the questions that Rob Daviau from Toronto had sent you. Once I read your reply, I realised you were wrong on one of the answers!

It's regarding question number 3. The CD32 has the same startup options as a Amiga 1200. Yes, you can select NTSC or PAL as well as the original chipset.

I know this because I have a CD32 and have done it. I also know that the CD32, like any Amiga, can not operate without ROM chips and since these boot options are part of 3.0 ROMs and up, that would mean the features are going to be there!

On another point I have a A1200 with a Blizzard 1260 board. For some reason when I move Icons around, resize windows or other intense mouse functions on the Workbench screen, my computer tends to freeze up. I am still trying to figure out why. I thought it was a heat problem so I put on a fan but it still happens.

I don't think it's the CIA because I have tried doing the same thing on after booting up with a Workbench disk and it does not seem to crash, do you know what is going on? Could I have a bad library or some PD program messing up something? If you know anything please tell me!

Finally, I recently lost DF0 so I am forced to use an External drive. How do I make DF1 so it can boot games and uncompress DMS files? Thanks for taking the time to read my letter. If this goes well and you correct yourself, I plan to write many more letters!

> Tim Favro, Seattle darkman@planetc.hughestech.com

Unfortunately I doubt very much there

are any new ones around for sale.

Very few were made in the first place

and as Escom did not produce any, I

would think you best bet is to try and pick one up second hand. An alternative would be the

Oh, erm, I should have tried the other joypad port as well sorry Rob. I assumed the mouse port was port one. It however does not hold that the early startup had to be in the CD32 ROM, but there would be little point in removing it.

With regard to the crashing problem, firstly make sure you have copied across the replacement libraries that came with your 1260 board - if you don't this makes your Amiga crash in the way you describe. If you have done this and the crashes are still happening you can try renaming your current Libs drawer to Libs.old and copy the Libs drawer from your original

Workbench floppy disk to your Workbench partition. If you now restart your machine you will be able to tell either way if it is a library file causing you problems.

Another possible way of doing this is, at the start of your startup-sequence, assign the Libs: Devs: and L: directories over to your original Workbench floppy, something like this;

> assign >NIL: Libs: DFO:Libs assign >NIL: Devs: DFO:Devs assign >NIL: L DFO:L

When you reset your machine it will use the original files on your Workbench floppy. If everything works fine the problem is to do with one of the files in these directories. By removing an assign at a time you could pin point which is to blame.

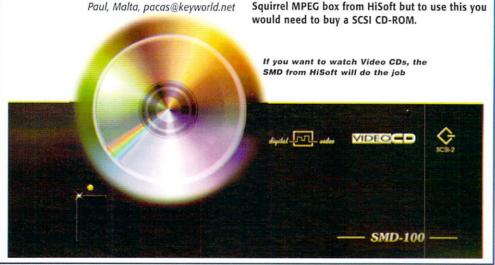
It would also be a good time to see if the cause is any PD programs you have installed either in the WBStartup drawer or in your userstartup. This is when the program WBStartup+ comes in handy. If your machine works correctly using the original Workbench disk, this would normally suggest the problem is to do with software installed on your system.

As for your last problem try this: In your

EEKING FMV

I own an A4000, A1200/030-50 and a CD32. Apart from using the CD32 to play the odd music CD, I would like to obtain an FMV module to utilise it for Video CDs as well. Any idea where I could get hold of one of these please?

Paul, Malta, pacas@keyworld.net



UST A QUICKIE

I just have a few quick question I hope you could answer. Are we ever going to see Workbench 3.2 that came with the Walker and if so what are the changes? Is TFX ever going to appear on the Amiga and do you know if Mortal Combat 2 can be installed on my A4000?

Don.K.Boyd, Horrich

Quick questions deserve quick answers, so here we go. First off we will not be seeing Workbench 3.2 any time soon, and even if we did there would be little point as the only changes were added support for the new features on the Walker.

I doubt TFX will ever see the light of day, even though it is 95% finished DiD seem to have no wish to put any more money into it. Mortal Combat 2 is on none DOS disks so cannot be installed onto your hard drive, but there is a hard drive installer on Aminet called mkiihd.lha either get an AminetCD or contact a PD house.

0 O D

How can I update my A500 so I can surf the net? What kind of modem do I need and how much more memory do I need - currently I only have 1Mb? Should I purchase the AGA chipset and can I use my TV with it, or do I have to buy a monitor? Should I buy a better Amiga? (I am working on a very small budget)

Olli Mankonen, olmankon@freenet.hut.fi

Realistically, you should upgrade to a new machine as you are asking quite a lot from your old A500. The best solution would be to get an A1200 and if you can afford it either a

RAM upgrade or even better, an accelerator card with extra memory. On top of this would be a hard drive which gives you infinitely more flexibility. To be truthful, I would not recommend trying to do anything on your Amiga unless you have a hard drive - why add extra has sles to your life? This would make for a very good machine to connect to the Internet.

If you cannot afford to dump your machine you will have to upgrade your A500 to at least 2Mb of memory. If you have

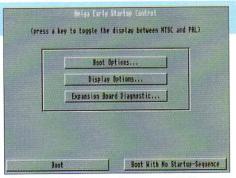
an A500+ you will be able to get away with using a trapdoor expansion. You can, in theory, use just this configuration. You are however, going to be very limited in the software and speed that you connect to the Internet and it startup-sequence add this line just after the Setpatch command:

assign >NIL: DFO: dismount

This removes the DFO device from the operating system's list of devices. Next you need to create a DOSDriver. For this you need a text editor, into which you should type the following:

> Device = trackdisk.device Unit = 1 Flags = 0 Surfaces = 2 BlockSize = 512 BlocksPerTrack = 12 Reserved = 2 Interleave = 0 LowCyl = 0 HighCyl = 79 Buffers = 5 BufMemType = 0 StackSize = 600 Priority = 10 GlobVec = -1 DosType = 0x444F5301

After typing this in, all that in save it off to the Devs:DOSDrivers drawer and call it DFO. You have just created a DOSDriver that describes a floppy disk drive. This 'new' drive will be called



The early startup menu gives you control over some of the hardware parts of your Amiga

DF0 but when accessed uses the external or DF1 drive. This was set by making the Unit part of the DOSDriver equal to one. This will allows DOS based programs to access DF1 as though it is the internal drive.

As for games, things are a little more complicated as some are hard coded to only use the internal drive. Since Workbench 2 you have been able to boot with external disk drives, you just have to have a disk in the drive. The other way is to go to that early startup menu by holding down both the mouse keys and select DF1 as the boot device, but if a game wants to specifically use the internal drive then there nothing you can do about it.

U

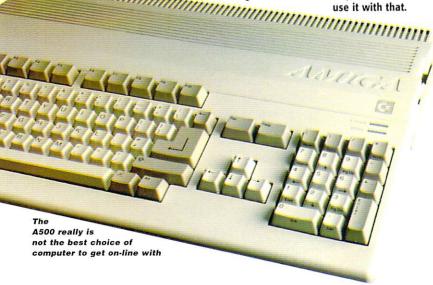
will not be much fun to use.

If you are going to stick with your A500 the only software available for such a low specification machine is TermiteTCP. This can be run from floppy and will work within 2Mb of memory. Even though you will be pretty limited to what Internet software you can use and you can forget about any of the new Web browsers, though you would still be able to use ALynx which is a text only browser.

To take advantage of the new Internet software and new Amiga programs in general you need at least a 4Mb machine and a hard drive. AmiTCP requires a hard drive and Miami uses the Magic User Interface as do many other programs, which due to its size, needs a hard drive. Just to go back over what I have said, this small table outlines what software you need for which machine:

A500 2Mb TermiteTCP
A1200 +HD TermiteTCP/AmiTCP
A1200HD 4Mb+ Anything you want

On the modem side of things – again, using an A500 you will be limiting yourself as both the A500's processor and serial port will struggle to keep up with the faster modems now available. Even so, you might as well go for the fastest modem you can afford as when you do get a better machine you will be able to



Jargon

68040 - On of the latest processors in Motorola's 680x0range. It runs up to 40Mhz, has a built in FPU, MMU and had a 4K copy back cache which helps to greatly increase processor performance

POP - A protocol designed to allow single user hosts to read e-mail from a server

SMTP - Used to transfer e-mail between computers. The SMTP dialog usually happens in the background under the control of the message transport system

Library - Part of the Amiga operating system, libraries allow AmigaDOS to be extendible, so if you want to add new functions you just add new libraries

AGA - Advanced Graphic Array, the custom chipset found in the A1200 and A4000. It gave the Amiga the ability to display 8 bit colour from a 24 bit palette

FPU - Floating Point Unit, a specialised chip or part of a chip that is dedicated to calculating Floating Point equations. Floating point numbers allow computers to store very large and very small numbers, which they could not do easily otherwise

MMU - A hardware device used to support virtual memory and paging by translating virtual addresses into physical addresses. This means hard drive space can be used as memory to store program code and data.

P RINTER D R I V E R

Where do I find a print driver for a HP Deskjet 540?

Tim Hamel, Thameler@AOL.com

Workbench comes with a generic Deskjet print driver that works with all the Hewlet Packard Deskjet range of printers and even supports the colour modes of the 550C and 560C. Having said that, the quality is not particularly good and programs such as Studio II and TurboPrint do a much better job. You should find it on the Storage disk, just drag it over to the Devs/Printers drawer and then select the printer in the Workbench printer preferences.



Do you have a problem? Do you sometimes find yourself poised over your Amiga with axe in hand, spouting profanity at the stubborn refusal of your software or hardware to behave in the correct manner?

Well, calm down and swap the axe for pen and paper, jot down your problems, along with a description of your Amiga setup, and send it off to Amiga Computing Advice Service, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP. Alternatively you can e-mail us at ACAS@acomp.demon.co.uk

AMIGA COMPUTING FEBRUARY 1997



Try our web site at www.hig.co.uk

"I Consider this to be the most revolutionary product of the year for the Amiga." Mat Bettison CU Amiga - CU Rating 939

Siamese System V1.5

Integrated Amiga, PC and Mac system possible, (must have Win95 PC) Single Monitor automatically switches to display PC as if Amiga Screen.

Single Keyboard and Mouse operation across all platforms.

Built in serial networking with all PC drives mounted on Amiga, and for high speed -

file transfer, Siamese uses optional SCSI network with suitable SCSI interfaces (not included). Text clipboard, Cut and Paste between Amiga and PC applications

Amiga MCI controller from AmigaDos or Arexx, (Media Control Interface)

Share Printers, all Amiga output sent to PC printer. Full Arexx support built in.

- Access to low cost PC product:-16 bit sound card with wave synth chip.
- MJpeg Video Recording cards.
- PC Ethernet Cards.
- Use cheap PC SVGA monitor with AGA Amigas

£149.95

Plus Future Optional upgrades: Amiga Screen Retargetting System (Right)

- Sharing of PC Modems
- MJpeg based, SVHS Animation Software.
- TCP/IP networking support.

!! STOP PRESS !!

Siamese System V1.5 voted Hardware Product of 1996 by Amiga User International



So you want a Siamese System but need a PC? Buy your Pentium PC from HiQ, the people who understand both the Amiga users needs and the advantages of using both platforms. or as Mat Bettinson from CU Amiga wrote:-

"I consider this to be the most revolutionary product of the year for the Amiga'



Siamese Pentium PC Systems include Siamese System v1.5, Mouse, Keyboard, Windows 95, Free VideoCD Player, 12 Month on site Warranty, 16mb EDO Ram, 1.2gb Hard Drive, 2mb PCI Graphics, 16 bit Sound card, 256k cache.

The Siamese System is developed in the UK by HiQ Limited

New Limited Edition Mk2 PowerStation - Only 110 Available! SCSI or IDE Options with 8 speed CDRom's and Fast drives.

Mark 2 PowerStation Case Only

Main Features:-

- 1. 200 Watt power supply for A1200.
- CE Approved components.
- 3. High quality construction. (Style may vary)
- 4. Five drive bays with all cables supplied.
- 5. Manual included for the PowerStation.
- Internal SCSI cabling for upto 5 units.
- 7. IDE cabling for upto 2 units. 8. CD Audio output.
- 9. Monitor power switch pass thru.
- Optional 80watt Stereo Speakers (right)

Case Only Price £99.95 All packs plus £12.50 shipping



Mark 2 PowerStation Pack Prices

Pro SCSI - Pack One

Powerstation Mark 2 Case, Amiga CD Title, 200watt Amiga pwr supply, CD32 Emulation, Surf Squirrel from Hisoft, 8 Speed SCSI CDRom.

Only £339.95

Budget IDE - Pack Two

Powerstation Mark 2 Case, Amiga CD title, 200watt Amiga pwr supply Samsung 8 Speed IDE CDRom

Only £199.95

Add a 1gb JTS for only £150.00 with Pack Two

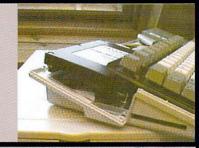


The Original PowerStation just gets better So while others copy, we improve and move on! !! A1200 3.5" STAR DRIVE BUYS !! JTS 1gb Only £179.95 ULTRA SLIM JTS 1.6gb Only £199.95 with 200w pwr supply JTS drives formatted, and Magic Workbench plus PD Software installed. Includes cable pack. Fits as easy as a 2.5" Drive, call for details. UK Post & Packing £7 (Citylink)

CDRom Drives

£ 99.95 IDE 8 Speed Samsung SCSI 8 Speed Panasonic £149.95

SCSI Drive 1.2gb Quantum SCSI drive





HiQ Ltd, Gable End, 2 The Square, Hockliffe, Bedfordshire, LU7 9NB Email Address:- steve@hiqltd.demon.co.uk All Prices include Vat, Please add 2.5% for Credit cards unless Connect and Delta versions.



s a newcomer to C there are two main areas to contend with. Firstly, there's the inevitable hurdle of learning the rules of the language, finding out what the language does (and does not) allow. Secondly it's necessary to get to grips with the large number of system functions present in the Amiga libraries. The first area is reasonably simple because C is a small language that's easy to understand.

The program shown in Listing 1 is about the simplest C code that can be written and makes an ideal starting point for our travels. The first line, some text (the program name in this instance) between /* and */ markers is a comment. Comments can be placed anywhere in a program and the compiler will simply ignore them.

The next line... #include tells the compiler to include a file called stdio.h. This is a header file that is provided with all C compilers. While it's a line you'll use in many, if not all, your C programs, you do not (in your early C days) need to worry about the actual contents of this file.

Following this comes the reference, main(), and this represents a function (the equivalent to the subroutines and procedures found in other languages). The main() function has a special purpose - it tells the compiler where program execution starts and, as with all C functions, the individual statements which make up this function are enclosed in braces {}.

One of the ways in which information can be passed to a function is by specifying a list of values, called arguments or parameters, within the brackets which come after the function name. In the example program printf(), which is a general screen printing function provided with all C implementations, has been used like this:

printf("This is my first C program $\n"$);

which causes the string of characters provided between the double quotes to be displayed. Notice that the above statement ends with a semicolon.

Again this is a general C requirement - all executable statements which appear in the body of any function must have terminal semicolons! The two characters \n also need explaining – they represent a single control

Your chance to get into C coding as **Paul Overaa** brings you the second part of his mini-series



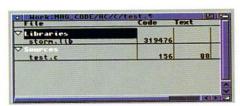




Storm C's multicoloured editor with the example source

character called a 'newline' and, when encountered, signify the end of the current line of printing. Any subsequent text after \n therefore appears at the start of the next screen line.

Whenever you use these types of readymade functions within a program, the linker will automatically include the appropriate library code. Sometimes in your early coding days you might get error messages during linking and invariably this is due to one of two reasons – either you've told the linker to look in the wrong place (perhaps specified a wrong directory for the library), or you've effectively



Once you've added the source to the project your display should look like this

asked the linker to find a function which doesn't exist.

Function names are case-sensitive so if, for instance, you wrote Printf instead of printf, the linker would complain that this function couldn't be found.

The last statement used in the example, return(), is used to specify a return value which is produced when the function is used. This month it's just being used to cause the main() function to return a no error (zero) indicator to the operating system when the program runs. The return statement is, however, an integral part of the more general description of a C function and I'll be dealing with exactly this topic next month!

RUNNING THE EXAMPLE

A working Storm C demo was provided on the coverdisk with issue 100 and, if you are using this, running the example code will be easy: Having opened a new project however, you do need to select the 'amiga.lib' library entry in the project window and use the Edit menu's Erase option to remove this entry (this is necessary because the amiga.lib library isn't provided with the demo version of Storm C).

At this point you should open the Storm C editor, type in the program shown in listing one, then save the file using the name test.c (by convention C source files are always given the filename extension '.c', and most compilers expect such an extension to be present).

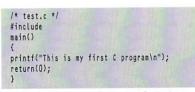
Having saved the file, pick up the test.c icon that is produced, and drop it into the project window (alternatively you can save typing by drag/dropping the test.c

source from the coverdisk into the project window.

Either way Storm C will recognise the source file and add it to the project. To create and run the executable version all you then need to do is select the 'make and run' button which you'll find on the Storm C toolbar (second icon in from the right)!

Dice C demo users get quite a lot of help files provided including a five page ReadMe file. Read it - it explains how to set up the system and also shows you exactly how to compile simple programs (hence we're chosen not to waste space by duplicating those explanations)

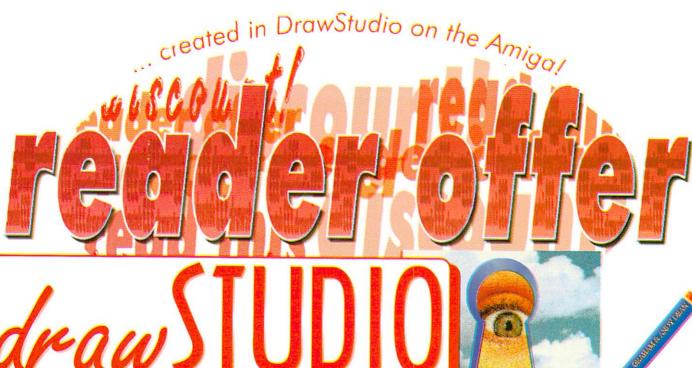
If however, anyone does have snags, related to the use of either the Storm C or the Dice C demo, simply drop us a line (or an email) at Amiga Computing and we'll put you on the right track!



Listing 1: Everyone who learns C starts with a program similar to this!



Click here and your project is compiled, linked and the program will run. It's as easy as that!

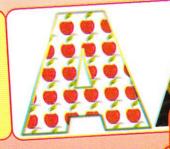


...DrawStudio is excellent with everything you expect in a structured drawing package: 92% ...

Neil Mohr, Amiga Computing

Save up to £15 on the price of DrawStudio

The following images were created in DrawStudio, the Amiga's premier illustration package:



To take advantage of this special offer exclusive to Amiga Computing readers, call the publishers of DrawStudio and order now. Don't delay, special discounted offer only valid until the end of Febuary 1997. Available on CD-ROM and Floppyy Disk (Both require hard drive, 68020 or above and 3Mb free memory)

can do with DrawStudio. Most of HOW TO ORDER: All major credit cards plus switch

FLOPPY DISK PACK £59.95rrp CD VERSION £74.95rrp

AC SPECIAL OFFER £47.95 +p&p AC SPECIAL OFFER £59.95 +p&p

Telephone: +44 (0)1908 370 230 Fax: +44 (0)1908 640 371 Post: LH Publishing, 13 Gairloch Ave., Bletchley, MK2 3DH, United Kingdom.

Cheques/Postal Orders: Please make out cheques/postal orders to LH Publishing. If ordering from overseas, payment can be made via a bankers draft in UK Sterling drawn on a UK bank. Please add postage costs to ensure prompt

Delivery Charges: UK 1st Class - £3.00, Europe: £5.00, America/Australaisa: £7.00 (AIRMAIL)











Check out the demo on the cover of

Amiga Computing's

Christmas issue!



Here are just a few examples of what you

the elements on this page are direct from DrawStudio, giv-

ing you a good idea of

of Amiga software!

what you could be doing

with this sensational piece

AMIGA COMPUTING

Nobody Undersells US!!!!! WE WANT YOUR BUSINESS!! WE WILL MATCH OR BEAT ANY GENUINE QUOTED PRICES.

AMIGA A1200 3.5" HARD DRIVE OVER 2 GIG

2.5 GIG 3.2 GIG £229

£299

8Mb RAM

CARD FOR A1200 £79.00

4 SPEED SCSI CD **ROM EXTERNAL** WITH POWER SUPPLY

8 SPEED SCSI CD ROM EXTERNAL WITH POWER SUPPLY £189

32Mb 1230 Mk4

2.5" 540Mb £129

2 GIG SCSI HARD DRIVE £259

350Mb SCSI £69

4Mb 72PIN SIMM £19.99

4Mb RAM CARD FOR A1200 £5/9

LOW FPU LOW PRICE

20Mhz 33Mhz

50Mhz

£8.00£50.00

SIMM RAM SIMM

98.00 1Mb 30pin

4Mb 30pin £30.00

4Mb 72pin £19.99

8Mb 72pin £29.95

16Mb 72pin £79.00

32Mb 72pin £149.00

Microvitec 14" Microvitec 15" Microvitec 17"

Fax 3.36 External Fax Modem

DELIVERY CHARGES

ALL PRICES INCLUDE VAT, SMALL CONSUMABLES AND SOFTWARE ITEMS UNDER THE VALUE OF £59 PLEASE ADD £3.50 P&POTHER ITEMS EXCEPT LASERS, NEXT DAY COURIER SERVICE £10 PER BOX. OFFSHORE AND HIGHLANDS, PLEASE CALL FOR A QUOTATION. IN ADDITION WE OFFER THE FOLLOWING EXPRESS SERVICES: SATURDAY DELIVERY NORMAL RATE PLUS £15 PER BOX, MORNING, NEXT DAY NORMAL RATE PLUS £10 PER BOX, E&0E PRICES ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. ALL TRADEMARKS ACKNOWLEDGED.

EDMONTON N18 2YZ

Over 100 Titles From Guildhall Leisure Services the Amiga specialists

Title	Publishers	All Amigas	A1200 Only	RRP
Euro League Manager	Manyk	Yes	,	£19.99
Basket Island	Manyk		Yes	£19.99
Minskies Furballs	Binary Emotions	Yes		£19.99
Gun Fury	Binary Emotions	Yes		£19.99

No.1 Hits from Microprose & Electronic Arts

Title	All Amigas	A1200 Only	RRP	Title	All Amigas	A1200 Only	RRP
Special Forces	Yes	-	£9.99	F19	Yes	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	£14.99
Starlord	Yes		£9.99	Colonization	Yes		£14.99
F117A	Yes		£9.99	Fifa Soccer	Yes		£14.99
Dog Fight	Yes		£9.99	PGA Golf	Yes		£14.99
Impossible Mission	n Yes		£9.99	Theme Park	Yes		£14.99
B17	Yes		£14.99	Wing Commander	T 1-4 (1 to)		£9.99
Fields of Glory	Yes		£14.99	Desert Strike	Yes		£9.99
UFO	Yes		£14.99	Road Rash	Yes		£9.99

Quality Software at Great Price

Title	All Amigas	A1200 Only	RRP	Title		100000000000000000000000000000000000000	10000
Battle For The Ashes	Yes	Alzoo olly	£4.99	Dreadnoughts Plus	All Amigas	A1200 Only	RRP
World Class Rugby '95	Yes		£4.99	Dr Plummets House Of Flux	Yes		£9.99
Emlyn Hughes International Soccer	Yes		£4.99		Yes		£4.99
Bubble and Squeak	Yes		£9.99	Bomber Bob	Yes		£4.99
Rugby League Coach	Yes		£9.99	Jigsaw Puzzlemania	Yes		£4.99
Wembley Rugby League	Yes		£9.99	Daily Double Horse Racing	Yes		£4.99
Graham Gooch World Class Cricket	Yes		£9.99	F1 Grand Prix Circuits	Yes		£4.99
Superleague Manager	Yes			Multiplayer Soccer Manager	Yes		£4.99
Graham Gooch Test Match Special	Yes		£9.99	Centrefold Squares	Yes		£4.99
Super Tennis Champs	Yes		£9.99	European Superleague	Yes		£4.99
Super Tennis DataDisk			£9.99	Colossus Chess X	Yes		£4.99
Odyssey	Yes		£7.99	Rugby Coach	Yes		£4.99
	Yes		£9.99	Football Director 2	Yes		£4.99
Exile	Yes		£9.99	International Arcade Action	Yes		£4.99
Exile Data Disk	Yes		£7.99	Gearworks	Yes		
Wembley International Soccer	Yes		£14.99	Fools Errand	Yes		£4.99
				Subversion			£4.99
Early Essentials 3-7yr	Yes		£14.99	Leeds United	Yes		£4.99
Junior Essentials 5-11yr	Yes	Awar	£14.99	Deluxe Strip Poker	Yes		£4.99
English 6-16yr	Yes	Winne	£14.99		Yes		£4.99
French 8-16yr	Yes	eduming	£14.99	Genesis	Yes		£4.99
German 8-16yr	Yes	Laucational	£14.99	Blitzkrieg	Yes		£7.99
Essential Science 5-12yr	Yes	Software	£14.99	White Death	Yes		£7.99
Essential Maths 5-12yr	Yes		£14.99	Worlds At War	Yes		£7.99
Maths(Numbers) 6-16yr	Yes		£14.99	Action Stations	Yes		£7.99
Maths(Geometry) 6-16yr	Yes		£14.99	50 Great Games	Yes		£7.99
Maths(Statistics) 6-16yr	Yes		£14.99	Deluxe Strip Poker 2	Yes		£7.99
Maths(Algebra) 6-16yr	Yes		£14.99	Treble Champions 2	Yes		£9.99
Geography 5-11yr	Yes		£14.99	World Of Soccer	Yes		£9.99
Structured Spelling Ud 9 Sp LD	Yes		£14.99	Test Match Cricket	Yes		£9.99
Spelling & Punctuation	Yes			Big 100	Yes		200000000000000000000000000000000000000
Dinosaurs All Ages	Yes		£14.99	Club Football	Yes		£9.99
Dillosauis Ali Ages	res		£14.99	Club & Country	Yes		£9.99
Naughty Ones	Yes			World Of War			£9.99
InterWord			£4.99	Skidmarks	Yes		£14.99
InterTalk	Yes		£9.99		Yes		£7.99
	Yes		£9.99	Super Skidmarks	Yes		£14.99
InterBase	Yes		£9.99	Super Skidmarks DataDisk	Yes		£7.99
InterSpread	Yes		£9.99	Blitz Basic 2.1	Yes		£29.99
InterOffice	Yes		£19.99	Guardian		Yes	£7.99
Gloom Deluxe	Yes		£9.99	Roadkill		Yes	£7.99
Touring Car Challenge	Yes		£14.99	Legends		Yes	£14.99
Approach Trainer	Yes		£14.99	Fears		Yes	£9.99
Cover Girl Strip Poker	Yes		£9.99	Virtual Karting		Yes	£14.99
Turning Points	Yes		£9.99	Gloom		Yes	£9.99
Napoleonics	Yes		£9.99	Blitz Support Suite	Yes		£14.99

Most titles are available from Electronics Boutique, Game Ltd. Premier Mail Order, Special Reserve, Software Plus and all good Amiga stockists. If you are unable to purchase any of the above games then please order directly from

Guildhall Leisure Services Ltd.

Unit 15 Guildhall Industrial Estate, Kirk Sandall, Doncaster, S. Yorks, DN3 1QR.

Tel: 01302 890000/Fax: 01302 890010

Please add £1 to cover Post and Packaging.

Please make cheques payable to: Guildhall Leisure Services Ltd. Or pay by Credit Card (Visa only)

Please allow 14 days for delivery.

Amiga Mice Replacement Mice£6.95 MegaMouse 400£9.95£12.95 MegaMouse Plus (3 Button) Performance Optical Mouse£29.95

Crystal TrackBall ...£34.95 Pen Mouse£12.95 (ideal for CAD) Auto Mouse/ Joystick Switch£12.95

Ram Boards

A500 512K Ram Board w/o clock	£15.00
A500+ 1Mb Ram Board w/o clock	
A600 1Mb Ram Board w/o clock	£20.00
A600 1Mb Ram Board with clock	£30.00
A1200 1Mb Ram Board with clock	£35.00
(limited stock)	
A1200 4Mb Ram Board with clock	£65.00
A1200 8Mb Ram Board with clock	£90.00

FPU 33MHz£33.00

Controllers

AlfaPower Hard Drive controller A500	£99
AT-Bus Hard Drive controller A2000	£69
Oktagon 2008 SCSI controller	£99
Multiface III	£79
PCMCIA Controller for CDRom for A12	00 £69

Spider

NEW MULTI I/O CARD

FOR AMIGA 1500/2000/4000 Active 8 port high speed serial card. Multiboard Support 57600 Baud rate on all

New AlfaQuatro

Specially made hardware and software. Allows 4 ATAPI devices, ie, 2 IDE hard disk & 2 IDE CD Rom to Amiga 4000 internal IDE controller, through Alfapower on Amiga 500/500+ and possibly Amiga 1200 comes, with full IDE Fix software£59

channels simultaneously. £299

Amiga Joysticks

Amiga Joysticks......£9.95 Amiga Joypads£9.95

Speakers

Multi Media Speakers	
25 watt (pmpo)	£29.35
Multi Media Speakers	
100 watt (pmpo)	£39.95
Multi Media Speakers	
240 watt (pmpo)	£49.95
Multi Media Speakers	
300 watt (pmpo)*	£59.95
* 2D	

* 3D surround sound



Floppy Drives

External Floppy Drive for all Amigas£39.95 Internal Floppy Drive A500/500+£35.00



Internal Floppy Drive A600/1200+ ...£35.00 A-Grade Double Density box of 50 disks ...£13.00 including colourful labels

IDE Hard Drives

HARD DRIVES + AT-BUS CONTRO	LLER FOR
AMIGA 500(+)/A1500/A2000/A300	0/A4000
AT-Bus hard drive controller	£69.00
Alfapower hard drive controller	£99.00
Alfanower 540 540Mb	

Alfapower-540 540Mb hard drive£199.00

Alfapower-850 850Mb hard drive£219.00 Alfapower-1.0G 1.0Gig hard drive£239.00 Alfapower-1.2G 1.2Gig

hard drive.....



Memory for Alfapower-Plus (new) marked Alfanower-Plus

marked Anapower-Files	
2Mb SIMMS	£30.00
4Mb SIMMS	£30.00
8MB SIMMS	£60.00
16MB SIMMS	£90.00
Memory for Alfapower (old)	
Every 2Mb Zip-Rams	£89.95

IDE 2.5" Hard Drives

FOR AMIGA 600/1200

IDE-170	170Mb	hard	drive	£79
IDE-250	250Mb	hard	drive	£99
IDE-420	420Mb	hard	drive	£120
IDE-540	540Mb	hard	drive	£150

IDE 3.5" Hard Drives

FOR AMIGA 1200/4000

DE-640 640Mb	hard drive	£99
DE-840 840Mb	hard drive	£125
DE-1.2 1.2Gig h	ard drive	£165
DE-1.7 1.7Gig h	ard drive	£179
DE-2.5 2.5Gig h	ard drive	£239

Miscellaneous Products	
DD floppy disks (50) including multicoloured disk labels	£13.00
DD floppy disks (100) including multicoloured disk labels	.£25.00
3.5" Hard Drive Kit for A600/1200 + Install software	.£15.00
Colourful Mouse Mat	
Animal Jungle design and Dinosaur design	£5.00
Optical Mouse Mat	£5.00
2 in 1 Scanner/Mouse Pad	
Contoured Wrist Pad	
Plain Wristrest	£3.50
2Mb SIMMS	
4Mb SIMMS	£30.00
CD Cleaners - 1/2 price	

CD Rom Cleaner£3.00

Automatic CD Rom Cleaner (battery powered) ...£10.00 Laser Lens Cleaner£4.50

Complete CD Rom for all Amigas

Quad Speed CD Rom for A500£129 (needs Alfapower V6.8 or higher)

Ouad Speed CD Rom for A600/A1200 £149 (inc CD32 emulation)

Quad Speed CD Rom for A1500/A2000/ A4000£109

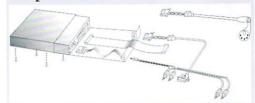


External IDE CD Rom Upgrade Kit

comprises of:

Metal case, screws, Power Connector (draws power from disk drive port) Power Connector (for optional external Power supply), IDE ribbon cable, Stereo Audio Cables (will require an interface)

Kit price £39



Special Offer for this Month

640Mb 3.5" Hard Drive...£99

1.2Gb 3.5" Hard Drive ..£165

1.7Gb 3.5" Hard Drive ..£179

2.5Gb 3.5" Hard Drive .. £239

170Mb 2.5" Hard Drive...£79

420Mb 2.5" Hard Drive.£120

STAR BUY

8 Speed CD ROM£189 16Mb Viper 1230 33Mhz £199

4Mb Apollo 1220 25Mhz

with FPU£99

Accelerator boards	
A1220 APOLLO Accelerator Board	£99.95
A1220 APOLLO Accelerator Board + 4Mb New Low Price	£110.00
A1230 VIPER Accelerator Board 33MHz	£119.95
A1230 VIPER Accelerator Board + 4Mb 33MHz	£169.95
A1230 VIPER Accelerator Board + 8Mb 33MHz	£180.00

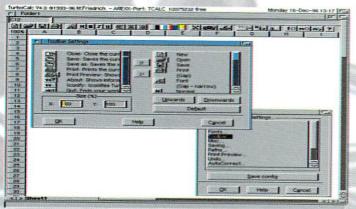
All prices include VAT. Please add £3.50 P&P for items under £30.00, £5.00 for items over £30.00, £8.00 P&P for Scanners, Speakers & Hard Drives, £10.00 courier for next day. Tax Free Export Orders Welcome. Golden Image accepts Access, Visa, Cheques & Postal Orders. E&OE. Prices subject to change without notice. Goods subject to availability. Specifications subject to change without notice.

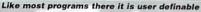


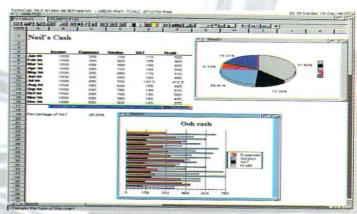
Goldenlmage (UK)
Unit 65, Hallmark Trading Estate, Fourth Way, Wembley, Middx

Sales Hotline No: 0181 900 9291 Fax: 0181 900 9281 http://www.reserve.co.uk/gold Talking Pages: 0800 600900









Look at all that lovely lolly stashed away, just don't tell the VAT man

'm sure all of us can remember, and perhaps some of you out there are going though this, sitting there on hot summer days gazing outside wishing not to have to sit for another minute in a boring maths lesson. To be honest, any mention of maths normally brings to mind the image of a bearded guy, wearing glasses and a psychedelic '70s shirt, explaining part two of advanced trigonometry on an Open University course.

The same goes for spreadsheets, if you were wanting to sell a computer to someone you would not try to impress them with computational speed at which your spreadsheet can sum up last year's tax returns. You would pick something a little more spectacular – well unless you were showing an accountant or something.

Somehow no matter how tedious something is it can manage to be a necessary evil and if there is one thing spreadsheets can do, its' look after numbers. If you want to make sure you stay in the black, a spreadsheet is what you need. That is, unless you are one of the aforementioned school children sitting around in class, in which case you don't even know you're born.

I haven't had much contact with spreadsheets in general and all I can remember from the Amiga ones I have encountered is that they were fairly horrid things to look at – being made for Workbench 1.3, were not very easy to use and were pretty limited. I am glad to say none of this applies to TurboCalc.

From the outset everything ran smoothly with TurboCalc, the good old Amiga installer copied everything across to my ever decreasing-in-size hard drive. Running TurboCalc had it automatically copying the current Workbench screen, so I did not have to even change that.

TurboCalc does not come with a printed manual, something you would normally expect. Instead you get an extremely well organised set of on-line help and tutorial documentation. If you have Workbench 3.0 you will get the very best out of the context sensitive help with all the pop up requesters sporting a help key that will open an AmigaGuide at the correct help page. More generally, help on the menus, functions, macros and settings are always available from a menu along with access to

With Christmas been and gone, **Neil Mohr** needs to straighten out his finances. Maybe TurboCalc will keep his bank manager quiet, for now

the full index or contents.

The only times I really use spreadsheets, apart from way back in my sixth form college days, is when putting together the progress sheet we use here at Amiga Computing. It keeps track of where all the copy is up to and what has left to be written. At the start of the month we allocate

pages for each article and are told how many advertising pages are to be set aside.

Once all the information has been put into the spreadsheet it instantly tells you how many pages it all adds up to. As pages are written these can be marked off and everyone knows where they are up to. Probably not the most conventional use for

PREADSHEETS

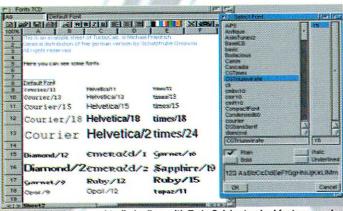
If you have never come across a spreadsheet before you won't have a clue what they are all about. A spreadsheet is usually an application that allows numbers and strings to be manipulated in a grid, usually by some mathematical formula.

If that has boggled your mind a simple example would be to use a spreadsheet to add up a list of numbers and return the result. If any of the numbers in the list are changed, the total result is automatically updated to the new figure.

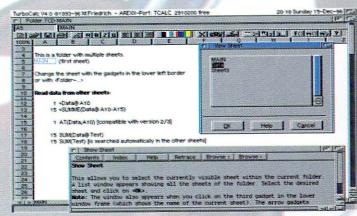
When entering formulae into the spreadsheet, you specify the cells in the spreadsheet by entering their x/y co-ordinates which are ordered alphabetically across and numerically down. So to add two numbers up you would enter in a cell the following: =SUM(B1+B2).

This would add up the two numbers in cells B1 and B2, with the result being shown wherever you typed the above. The power of spreadsheets is the ability to copy and paste the formulas used and they retain their relative references. If you had the formula SUM(B4:B8), which sums all the numbers from B4 to B8 and copied it over to the next cell, the formula would be updated to read SUM(C4:C8).

If you are still confused by all this do not be put off – with TurboCalc you get a whole load of example files so you can learn from those, as well as a nicely thought out AmigaGuide based tutorial.



I thought I had managed to find a flaw with TurboCalc's standard fonts requester which is rubbish, but unfortunately there is a use ASL font requester option



Making spreadsheet organisation a much more flexible prospect, separate sheets really do help out

Power

a spreadsheet but it works as well as anything else, so why not?

As everyone here is on the Mac network we use Excel, Microsoft's big old spreadsheet, to maintain the progress sheet, and I'm glad to say TurboCalc is every bit of a match for it, while being a sixth of the size.

It has a huge number of RIVE CT

It has a huge number of functions for use with the spreadsheet calculations approaching 200 or so. It covers everything from basic arithmetic functions, such as add

and subtract, to complex trigonomic functions. It also has Boolean operators, string and date commands and functions to help automate spreadsheet functions in TurboCalc macros.

Using TurboCalc does not mean a boring life of plain spreadsheets. If you want to add a bit of colour, choose one of the many types of charts it has to offer. On the

up, just tell it where the figures you want plotting are. You can then produce a bar, line, point, area, step and pie chart. All these offer 3-D versions and can have colour and pat-

whole they are very easy to set

terns applied to each section. The pie chart is particularly nice as it lets you pull out segments if you need to highlight a specific part of the pie.

Further fancy additions can be made to your spreadsheet through TurboCalc objects. These drop scaleable bounding boxes onto your spreadsheet and can be moved to any position or size you like. Most simply this allows you to splash IFF graphics onto your spreadsheets to make them a little more interesting, or have a freely positionable text box.

A chart can also be made an object and you can have a chart, of what ever sort you wanted, laid onto the spreadsheet. As your spreadsheet is updated, the chart is dynamically updated as well – an excellent feature.

TurboCalc is an exemplary Amiga program – easy to learn, quick to use and yet has the power for even the most demanding user. The only criticism I could level at it is I wish the gadgets had thin sides so they look correct on 1x1 ratio screens, but that is hardly going to put you off!

NEW CLEAN SHEETS

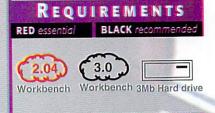
One of the new additions to version four of TurboCalc is sheets. Instead of each separate spreadsheet being thought of as a single entity it is now only a single sheet out of as many as you want. Each spreadsheet project is called a folder, which of course can hold as many spread sheets as you like.

This makes organising large spread sheets far easier. Previously, if you wanted to keep tables of information separate you would have had to spread the tables all over the single sheet – which meant a lot of scrolling around your documents if you wanted to change figures in another table. There is also the possibility you could run out of room on a single spreadsheet.

By adding extra sheets you can really simplify this job and make your spread-sheets much easier to access. Say you want to work out your monthly outgoings such as food, rent and petrol but also wanted a separate overall breakdown. You could create separate sheets to hold the individual entries and another to hold the totals.

For each sheet you create you can either flip through each one using the arrow buttons on the bottom left of the window or use the pop up requester to select a sheet. I found TurboCalc also lets you have a separate window open for each sheet using the open new view option and of course, as soon as you alter a value on one sheet all the sheets are updated.

Bottom *line*



PRODUCT DETAILS

Product	TurboCalc v4	
Supplier	Digita International	
Price	£39.99 Upgrade £29.99	
Tel	+44 (0)1395 270 273	
Email	support@digita.demon.co.uk WWW:http://www.digita.com/	

S C O R E S Ease of use

Implementation 90%
Value For Money 95%
Overall 93%

he Hewlett Packard 5L laserjet is a quality printer that bridges the performance and price gap between professional business machines and those for home use. As such, it is designed for the home or small workgroups. Because of this, it is the least expensive (almost by a third) of the H-P 5 range.

As a result it has more limitations than its more expensive brethren. These might matter for business users but for the home user or small work groups they won't pose a problem. Despite costing £499, the 5L is one of the best value modern quality printers available.

The output quality sounds impressive. Its 600 x 600 dots per inch ensures it can hold its own against other, more expensive competitors. The quality promises to be flawless; its text is crisp and well defined and greyscale imaging is impressive.

Aesthetically the 5L's design is a little unusual with its curved base and raked paper bins. It might not be to everybody's taste but it is certainly distinctive. If your study is a clutter, this printer is probably a little bulky and certainly isn't as space efficient as one of the tower designs such as the Panasonic KX P6100.

The paper handling should beat most other equivalent printers. It incorporates two paper bins, one of which holds 100 sheets while the other is a single sheet 'priority input slot'. It won't restrict what quality and weight of paper has to be used - a straight through path allows you to print on paper upto 43lb bond weight.

The 5L has a cunningly adaptable paper handling facilities to cope with not just A4 but also envelopes and other odd shape stock. Both bins have sliding guides which can be pushed inwards to keep the sides of the paper properly aligned.

The technical specifications are impressive. The 5L is managed by a 24MHz Motorola 68030 processor and because it incorporates Memory Enhancement Technology, it allows output of 600dpi on only 1Mb of memory.

This can be upgraded to 9Mb via an empty memory slot which would enable the printer to accomplish even the biggest, trickiest job you could imagine and also enable you to download fonts and the like. As well as this, the Hewlett Packard 5L incorporates a number of useful features such as the HP Printer Pal which allows you to receive faxes on plain paper.

The printer should be efficient and easy to use with a very good driver and onscreen help. Rather than looking like the bridge of the starship Enterprise, it is uncluttered with buttons and LEDs – in fact there is only one button – for on/off – the rest is automated and operated from the computer.

The machine has a couple of possible

drawbacks but these stem from the fact that it is an inexpensive version of a pricier business machine.

First of all, it might not be especially fast although it should manage a fairly reasonable four pages per minute. Also the foldout paper guides aren't especially sturdy, and depending on the number of toddlers, cats and dogs running about your house, there is a chance that a collision could result in a breakage. Having said that, equivalent models of the same price probably wouldn't be any better equipped.

In the quality personal laser printer market, the Hewlett Packard 5L is one of the best in terms of output quality, ease of use and value for money. Although slow compared to a business machine, the output rate of four pages per minute should be sufficient for home use and the 600dpi output quality puts many of the competition to shame.

In short, although maybe a little more pricey than other printers, the Hewlett Packard 5L is everything you would want from a modern laser.

Piremier Packard

Hugh Poynton takes a look at H-P's quality home printer







AMIGA REPLACEMENT CHIPS AND SYSTEM UPGRADES



\$59.95 \$7.95 \$7.95

\$2.99

Paxtron is North applier of Amiga replacement and

3	REPLACEMENT & UPGRADE CHIPS	
	(Factory New)	PRICE
	1.3 ROM O/S	
	2.04 ROM O/S	
	2.05 ROM (V37.350) (A500 & A2000)	.\$19.95
	2.04 ROM A3000 (Set of 2 Rom 0/1)	.\$34.50
	2.1 Workbench for floppy users (complete O/S	
	without support file)	\$7.95
	3.1 ROM (A500/A2000)	\$49.95
	3.1 ROM (A3000/A4000)	\$62.50
	3.1 ROM (A1200)	\$62.50
	3.1 ROM (A1200) 3.1 ROM(s) Software/Manual\$124.00/	\$137.50
	ROM Switch/Switch-Itt with speaker	\$17.50
	3.1 manual only	\$69.95
	3.1 Software	\$10.00
	3.1 Workbench for floppy users (complete	
	O/S without support file)	\$7.95
	A2091 7.0 ROM Upgrade	\$19.95
	A2620/30 7.0 ROM Upgrade	
	8520 CIA	\$11.95
	8372A/8375 Agnus with diagnostic disk/guide	\$29.95
	8375-B (2MB) (A3000) 318069-03	
	8375-10 Agnus (318069-10) PAL	
	8375-18 Agnus (318069-18) 2 meg PAL	
	Agnus PLCC chip puller	\$10.50
	Paula (8364) A500/A2000	
	Denise (8362) A500/A2000	\$10.95
	Super Denise 8373 w/diagnostic disk	
	Gary 5719 A500/A2000	
	Buster 5721 (A2000)	
	68000-8MHz CPU (DIP)	\$11.50
	68000-16MHz CPU (DIP)	\$22.50
	68030-RC50 PGA	\$84.50
	68882-25 PGA	
	Western Digital SCSI chip 8A	
	Video Hybrid - (A500 390229-03)	
	GVP Upgrade Chip Series II	\$29.95
	6570-01 (71) (315107-01) Keyboard. IC	\$14.95
	SURFACE MOUNTED DEVICES	
	(For A1200, A3000, A4000, CD32)	610 50

8520 PLCC (391078-02).....

Ramsey (rev.4) 390544-04 ... Ramsey (rev. 7) 390541-07 ...

Gayle (315107-02)

Amber (390538-03)..... DMAC 4 (390537-04)...

Lisa (391227-01).

n America's largest whole	sale su
Budgie (391425-01)	\$33.95
Super Denise (391554-01)	\$29.95
6571 Keyboard Chip (391079-01)	
6570-036 Keyboard Chip (328191-02)	
Paula 8364 (391077-01)	\$27.95
Gary (390540-02)	\$32.95
Super Buster Rev. 11 (390539-11)	
Bridgette (391380-01)	\$29.50
Video DAC (391422-01)	\$19.95
68000CPU (390084-07)	\$13.95
68000CPU (390084-07)68020-16 (391506-01)	\$18.95
MC 68882RC25A PGA New (390434-01)	\$19.95
MC 68882RC20A PGA	\$30.00
MC 68882RC33A PGA	\$37.50
XC 68882RC40A PGA	\$69.95
MC 68030FE25B QFP (390399-05)	\$19.95
MC 68030RC50 PGA	\$79.95
MOTHERBOARDS (Factory New)	
CD32 (no RAM memory) NTSC	\$89.95
CDCC	C100 0F

VIDEO DAG (391422-01)	13.33
68000CPU (390084-07)	\$13.95
68020-16 (391506-01)	
MC 68882RC25A PGA New (390434-01)	\$19.95
MC 68882RC20A PGA	
MC 68882RC33A PGA	
XC 68882RC40A PGA	\$69.95
MC 68030FE25B QFP (390399-05)	\$19.95
MC 68030RC50 PGA	\$79.95
MOTHERBOARDS (Factory New)	
CD32 (no RAM memory) NTSC CD32 complete with RAM/tested NTSC	\$89.95
CD32 complete with BAM/tested NTSC	\$109.95
CD32 complete with RAM/tested (PAL)	\$89.95
CD32 replacement CD mechanism	\$39.95
A500 (rev. 3) inc all chips (see below)	\$49.50
A500 (Rev. 5/6)	\$89.50
A600	\$134.00
A1200 (NTSC) Limited quantity 3.0 O/S all memory Ne	w \$289.95
A1200 (PAL) Limited quantity 3.0 O/S all memory New	\$279.95
A2000 LATE Rev. 8372/2.05	\$399.95
A3000 (16MHz)	\$299.95
A3000 (25MHz)	\$359.95
A3000T (Tower) 25MHz	
A4000 (limited quantity)	CALL
C64 (refurbished, tested all chips)	\$29.95
C64 untested, all chips clearance	2/\$25.00
C128	\$49.95
C128D	\$69.95
1541 II	\$17.95
1541 Alps (15000401)	\$17.95
1571 Newtronics (310420-01)	\$17.95
AMIGA FLOPPY DRIVES (Factory N	ew)
High Dens External floopy for all Aminas	\$114.95

CD32 replacement CD mechanism	539.95
A500 (rev. 3) inc all chips (see below)	
A500 (Rev. 5/6)	\$89.50
A600	\$134.00
A1200 (NTSC) Limited quantity 3.0 O/S all memory New	w \$289.95
A1200 (PAL) Limited quantity 3.0 O/S all memory New .	\$279.95
A2000 LATE Rev. 8372/2.05	
A3000 (16MHz)	
A3000 (25MHz)	\$359.95
A3000T (Tower) 25MHz	
A4000 (limited quantity)	CALL
C64 (refurbished, tested all chips)	\$29.95
C64 untested, all chips clearance	2/\$25.00
C128	\$49.95
C128D	\$69.95
1541 II	\$17.95
1541 Alps (15000401)	\$17.95
1541 Alps (15000401)	\$17.95
AMIGA FLOPPY DRIVES (Factory No	ew)
High Dens. External floppy for all Amigas	
High Density Internal Floppy Drive:	
A3000/A4000 (specify)	\$104.95
A2000	\$109.50

A600/1200 new Amiga Tech. special release button.\$1.95

A3000 Internal 880k	\$49.95
A4000 Internal 880k	\$49.95
CD32 Replacement CD mechanism	\$39.95
1541 (refurbished)	\$39.95
1571 (limited quantity)	\$49.95
POWER SUPPLIES (Factory New)	
4500	\$38.95
A500	\$79.95
A500 power supply (used) 220 volts Europe	\$10.05
A590	\$10.05
A1200 110 volts original factory	\$38.05
CD32 Original / Factory (110 volts)	
CD32 Original / Factory (220 volts)	
CD32 Original / Factory (220 Voits)	\$14.95
A2000 110/220V. internal original	\$89.95
A3000 internal (110/220 volts)	\$110.00
A3000 Big Foot (250 watts) Micro R/D	\$144.50
A3000 Tower	\$124.00
A4000 internal (110 volts)	\$119.00
A4000 int. 300 Watt Big Foot (exchange)	\$169.95
1084S Phillips Flyback Transformer only	\$38.95
1084-D1 Phillips/Daewoo Flyback only	\$38.50
1084-D2 Daewoo Flyback Transformer only	\$38.50
1084S new Motherboard/Flyback	see below
1084S power supply board (refurbished)	\$29.95
C64 nonrepairable	\$14.95
C64 repairable	\$19.95
C64 5.2 amp Heavy Duty (also 1750 REU)	\$39.95
C65 220 Volts	\$12.50
C65 110 Volt	
C128D Internal	
C128 external 5.2 amps	
1541 II/1581	
10 11 18 100 1	
KEYBOARDS (Factory New)	
C64	\$17.95
C65 (Special Keyboard)	\$19.95
A500 (limited quantity)	\$30.05
ASOO (IIIIIIled quartity)	\$26.50
A600	\$24.95
A1200	\$34.95
A2000 US version (Amiga Technologies)	\$74.50
A3000 US version (Amiga Technologies)	
A3000 US version (Arriga Technologies)	3/4.30 674.50
A4000 US version (Amiga Technologies)	3/4.5U
Amiga compatible "IBM keyboards"	See Delow
A2000 keyboard adapter to A4000	\$8.95
A4000 keyboard adapter to A2000	\$8.95

upgrade cnips	
ADD ON BOARDS (Factory New)	
68020-030 (A4000)	\$67.95
A386 (20MHz) Bridgeboard /SW /Instr	\$259.95
A2088XT/AT Bridgeboard Kit/drive,	
manuals (A2000)	\$29.50
A2058 (ØK) (A2000) Expansion board 8K	\$69.95
A501 original Ram Exp 512K (A500)	\$17.95
Microway Flickerfixer	\$224.00
Slingshot Pro/pass thru (Micro R/D)	\$37.50
A1050 RAM Expander (A1000) 256K	\$10.95
ACCELERATORS	
Apollo	CALL
Phase 5	CALL
MOUSE CONTROLLERS (Factory N	ew)
Amiga 1352	\$22.50
Wizard 3-button (for all Amigas)	\$22.95
A4000	\$26.85
Amiga CDTV	\$15.95
Amiga A1200 mouse port replacement kit	\$7.95
CD32 controller	\$11.75

DIAGNOSTICS

Advanced Amiga Analyzer (see below).
Final Test diagnostic disk by Amiga.....
Amiga Troubleshooting Guide.....

Commodore Diagnostician II	
C64/128 Dead Test cartridge/manual	\$19.95
Service ManualsSE	E BELOW
CLEARANCE SALE	
ICD Ad RAM 2080	
ICD Ad SCSI 2000	\$49.95
ICD AdSCSI 2080	\$59.95
A520 (New) Video Modulator	
Adapter kit/cables/instructions	\$12.50
2.04/3.1 ROM Switch - (Switch Itt) with speak	
256X4 RAM for A2058 expander, etc	
15-23 pin adapter cable	\$19.95
Monitor Cables - 30 Different types	CALL
C64 untested motherboard/all chips2	
C128 untested motherboards/all chips	\$19.95
Monitors: 1084S, 1950, 1802, etcSI	EE BELOW
CDTV modulator	\$2.95
CDTV unit (No Cabinet)	\$89.00
Laser printer memory board @K (All HP unit	s)\$24.95
Sony QD6150 data cartridge	\$7.50
A1200 top/bottom case	

Joystick - Captain Grant (for all Amigas)......

...\$39.95 6570-01 (71) (315107-01) Keyboard. IC.....\$14.95 PAXTRON ONL

 A500 COMPUTER with power supply and latest chips (eg: 8372 Agnus, 2.04 O/S). Includes your choice of the following software/books: Starter Kit, Discover Kit (inc. Kind Words, Deluxe Paint II) or Deluxe Kit. Also includes free Amiga Troubleshooting Guide (\$7.95 value), 90 day \$119.95 warranty, tested & ready to go. Fantastic price

A500 Internal 880

A600/1200 Internal

A2000 Internal 880k.

\$19.50

.\$34.50

\$24.50

\$19.95

.\$36.50

\$25.50

\$19.95

- Options: A501 1/2 meg expansion memory board installed add \$10.00. With 3.1 O/S ROM add \$48.50. PAL unit with 220V power supply add \$29.00
- A501 original CBM 512KB Memory Expansion Card with clock, calendar/battery for A500. In original box instructions and warranty.\$17.50
- A520 Video Modulator Adapter Kit with cables and instructions (NTSC). Run any Amiga on\$10.50 vour television
- AMIGA COMPATIBLE KEYBOARDS (Just released from Germany.) KB100 is a sophisticated in-line adapter box for use with IBM keyboards. Use the KB100 on your A500/A2000/A3000/ A4000. (A600/A1200 require soldering.).....
- Complete service manuals. Some manuals may be photocopied. 5 day delivery on some manuals. A500, A500+, 590, A1000, 1230 printer, 1802, 1902, 1902A, 1934, 2002, 2091, 2300. 2630. CDTV. 1581. C65... A500 schematics, A600, 1084S, 1084S-D1, 1084ST, 1936A, 1960, A2000 A1200, A3000, A3000T, A4000, CD32,
- 1084S MONITOR MOTHERBOARD WITH BUILT IN FLYBACK TRANSFORMER This new board will cure 90 percent of 1084S monitor problems. Simply switch the motherboard and your monitor problems are solved! This motherboard with the flyback factory mounted is the exact replacement and works with 1084S models only. It's easy to install ...
- AMIGA MONITORS We have a large supply of refurbished 1084(S), 1902, 1930, 1802, 1702 monitors, etc. For example, the 1084(S) is \$169,95 with cable, 90 day warranty, CALL
- A1200 MOTHERBOARD Paxtron has purchased a limited supply of new A1200 motherboards, both NTSC and PAL. They come with 3.0 O/S, all chips, 30 day warranty. Specify (Optional - 3.1 O/S and diskettes, installed add \$56.95.)
- SUPERGEN (Internal Genlock) for A2000 By Progressive Image Tech/Digital Creations. Most flexible Genlock and video overlay device for all Amigas. Supergen provides a flexible broadcast quality Genlock at a very, very affordable price. Comes with external control box and cable. Includes a 90 day warranty instruction book. This is a factory refirb unit selling for\$179.95 a fantastic low price of (Internal Supergen sold initially for \$650.)

ADVANCED AMIGA ANALYZER 2.0™

AN INEXPENSIVE DIAGNOSTIC ANALYZER THAT WORKS ON ALL AMIGAS

A complete diagnostic hardware and software analyzer (uses point and click software interface.) The analyzer cable plugs into all Amiga ports simultaneously and through sophisticated software, displays 8 screens to work from. Shows status of data ports, memory (buffer) checker, system configuration and auto test. Reads diagnostic status of any read/write errors from track 0 to track 79. Software automatically tells what errors are found and the chips/components responsible. 85 to 90% of the problems presented to service centers are found with this analyzer. Saves you lots of money on repairs and no end user or repair shop can afford to be without one. Don't be fooled by its low cost. Simply plug in cables from the analyzer box. This diagnostic tool is used by end users and Amiga repair centers worldwide and is the only one of its kind. Over 15,000 sold.

New low price

.. New 2.0 Version ..

Amiga "Q-Drive" 1241 CD ROM Drive for the A1200

The Amiga Technologies "Q-Drive" 1241 is a PCMCIA interface for the Amiga 1200 (CD32 emulator). It is a super fast CD-ROM drive equipped with a PCMCIA connector.

Price: \$179.95 (Quantity pricing available)

*** WANTED ***

Get Cash for your A2000 computers. New or Used (NTSC or PAL).

We pay top dollar. We also pay UPS shipping charges.

ATTENTION DEALERS

Paxtron has been appointed as a North American distributor for ACT Apollo and Phase 5 accelerators. Give us a chance to quote you our best prices.

Web page: www.paxtron.com

Our web page is continually updated with latest products and price changes. Visit us and check it out. Enter your order there or by E-mailing us at paxtroncorp@rcknet.com.

ATTENTION DEALERS: If you would like to receive our dealer catalog fax us your letterhead



28 Grove Street, Spring Valley, NY 10977 914-578-6522 • 800-815-3241 800-595-5534 • 888 PAXTRON • FAX 914-578-6550

Hours: 9-5 pm ET Mon.-Fri. • Add \$6.00 UPS Charges • MC/VISA • Prices subject to change WE SHIP WORLDWIDE! E-Mail for orders & correspondence: paxtroncorp@rcknet.com









s you've probably noticed, there are now a multitude of Internet Service Providers all clamouring for the business of connecting Joe Public to the World Wide Web. But as Amiga owners know only too well, many are all geared up for the average PC owner and not those with Amigas. Fortunately, many are now realising that there is a huge untapped market out there of Amiga users who want to get connected.

We thought we'd find out how they fair when it comes to those who want to get connected with their Amiga. What do they know, how much does it cost and why should *you* choose them? We took a selection of some of the most popular and some of the smaller outfits to see who is the best when it comes to the Amiga surfer.



Ken at Zetnet said:

What can you offer the Amiga owner?

We provide our Amiga users with necessary software for gaining access to the web (scripts, etc.) as well Internet Client software. Amiga Technical support is also available.

When is technical help available?

Technical support is available from 9 AM to 8 PM. Monday to Friday and 9AM-5PM on Saturday.

What extra's do you offer eg, free web space? Each account comes with 5Mb of free web

space. 0345 local call number from anywhere in the UK

If you recommend two friends to Zetnet services in one calendar month, then you get 1 months free subscription

How much do you charge?

Setup fee of 20 ukp (waived if transferring from

Thereafter 7.50ukp per month or 80 ukp for the whole year. (Prices are inclusive of VAT) No online charges/hidden charges, etc.

What is your user-to-modem ratio?

Do you have Points Of Presence all over the

We operate an 0345 local call service from all over the UK

What mail protocol do you have - SMTP or

POP3 mail protocol



Demon sales told us: hat can you offer the

We have Amiga software available on our

ftp site, but unfortunately we do not support it. It is also available on floppy for a media/copying fee of UKP7.50 + VAT

24hrs a day, but again our Amiga software is only supported on a "best effort" basis.

What extras do you offer? 5Mb Free Web Space.

How much do you c Connection: UKP12.50 + VAT

Monthly: UKP10.00 + VAT Payable by Credit

Card or Direct Debit

No figure published.

Do you have Points Of P



Local rate numbers: **COLT ROMP**

The COLT ROMP offers potentially increased access speeds, more

lines and currently has a lower usage rate than the Energis ROMP.

Standard Dial-Up 0845 353 5666 (33.6 Kb/s) ISDN Access 0845 353 5667

Energis ROMP

Standard Dial-Up 0845 079 8666 (28.8 Kb/s) ISDN Access

Calls to the COLT and Energis ROMPs are charged by BT at local rate; customers of other telephone companies should check with their

"Demon Internet is the UK's largest, most experienced provider of fast, dial-up access to the Internet."



bring your passion to Delphi

Jon Maguire told us:

As our service is firstly a text-based service the initial connection can be made very simply using any terminal program set to 8-N-1. Through it, it is possible to access a wide range of Internet services including Telnet, FTP, VT100 web browsers.

However if the user would like, it is pos sible to create a SLIP connection, using the appropriate software on ANY platform. The only software we supply ourselves is an outdated interface for our text-based service, for the PC platform only. Users of Win31 use Trumpet Winsock and Win95 users use the inbuilt Dialup Networking

We offer two dial-up access plans, the 10/4 plan (£10 per month, 4 hours free a month),

and the 20/20 plan (£20 per month, 20 hours free a

month).

In addition each account can have up to 10 sub accounts, and we provide a fixed amount of web/file space (10Mb).

Our help desk is open Mon-Fri 9am-8pm. And our experienced, and helpful staff will be glad to help users on any platform.

POP3 and SMTP mail protocol and access to newsgroups through our news server, with the ability for Telnet access to users from anywhere on the planet.

All in all Delphi offers a good package for Amiga owners because we can allow access through a wide range of channels and the abil-ity to access the Internet directly with a VT100

Tina Hackett takes a look at Internet Service Providers for Amiga users

Clive at ProWeb told us:

mail account) and a free starter home page.

much do you

We offer local dial-in

access (Diamond Cable - Free calls 6pm-8am Mon-Fri and all weekend!).

We provide start-up software on five 3.5" disks and a range of other software on our ftp

Telephone support is NOT available for Amiga users as we are not "Arniga aware" :(but we HAVE a contracted an Amiga support chap, who provides Email support AND answers questions in our proweb.amiga newsgroup. He is the chap who put together the setup software, and he will also provide telephone help to any user in extreme difficulty, (but not toooften, as he's a professor in Ireland!)

1Mb of free disk space, a pop3 e-mail address with up to five aliases (routed to your pop3

Once only start-up fee: £15.00 inc. VAT Monthly fee: £12.50 inc. VAT (0845 Local-Call £15.00 inc. VAT)

7-1 at the moment (we are quite young!) and we will keep it below 15-1

ou have Points Of Presence all over the

No.. only 0845 local call access.

that mail protocol do you have - SMTP or

POP3 & UUCP.

Why choose them?

As you can see, we are not Amiga specialists, but we do have 10 Amiga users currently subscribing to our service who seem more than happy.



What can you offer the Amiga owner?
We will be offering our Amiga customers a com prehensive software package with all the too they need to get up and running on the Internet

NETCOM offers 24 hour, 7 days a week technical and customer support for all its customers.

All NEICOM customers receive 1Mb of free web space with their account.

We have no connection fee, and our monthly charge is £14.95 inc VAT for unlimited use. We offer a special introductory rate of £5.95 inc VAT for the first month.

-modem ratio? 17:1

ice all o

Yes. We provide 100% local call rate access through-out the UK through a single number dial-up.

We use POP for mail delivery, and SMTP for sending from the client.

Is this service for the Amiga owner available worldwide or just in the UK?

All NETCOM customers can access our service at local call rates from the UK, US and Canada. They can also access our service outside these areas, but international call rates will apply.

NETCOM's Amiga customer will receive the same high level of service and network reliability available to all our customers. Our industry leading service recently led to our being awarded Provider of the Year by Internet magazine and Best Internet Provider by PC Advisor magazine.

ONFUSED?

If you did not see our guide to getting online last month, you may want to know some basics:

User-to-modem ratio

The less users to a modem the better Point Of Presence
If they have one local to you it saves

money on long distance phone bills

Free Web Space

Gives you space on the World Wide Web to display your very own home

Mail Protocol

The way the ISP will send and receive your Email. Consider this when you choose your Email package



What can you offer the Amiga owner?

We can offer dial up accounts for Amiga users, but they will have to supply their own software and find their own technical support as we do not support Amiga users.

When is technical help available?

The technical support line is open at the following times:

Monday - Friday 09.00hrs 21.00hrs

Saturday Sunday 10.00hrs - 16.00hrs

What extras do you offer - any free web space?

We do not currently offer free webspace with

our dial up accounts How much do you charge?

Charges are as follows:

Annual Account £89.99 + vat Quarterly Account £29.99 + vat

Monthly Account £9.99 + vat, plus a setup fee of £10.00 + vat.

What is your user-to-modem ratio? 25:1.

Do you have Points Of Presence all over the

We cover the entire UK with local call access and have POPs throughout.

What mail protocol do you have - SMTP or POP?

POP3 mail.

FEEDBACK

Unfortunately, although we contacted some larger American ISP's they did not respond in

time to our questionnaire. So this is where our US readers come in - if you know of any good American ISP's that are kind to Amiga owners let us know. We will publish the results in a later issue.



ver the years the Amiga has had more than its fare share of programming languages. One of the first was the fairly abysmal Amiga Basic, written by some company called Microsoft. HiSoft has also had a go with its long running and very competent HiSoft Basic.

What really got the ball rolling was AMOS, based on STOS the original Atari ST version, it brought us a powerful and highly flexible programming language that was also simple to learn. This was soon followed by AMOS Pro for people who wanted even more out of AMOS and included a compiler to allow standalone programs and after that, EasyAMOS to simplify programming even more.

Later, a rival to AMOS appeared in the form of Blitz Basic and was used to write the highly addictive Skid Marks. Being the more recent program Blitz managed to attract a good number of AMOS and new programmers, due to the better Intuition based editor and debugger, along with the fact you could, from the start, produce proper multitasking programs as well has hardware bashing games. Blitz however never seemed to get the mammoth following that AMOS managed to gain.

The aim of both Blitz and AMOS was to give the user a programming language that was simple to learn and use, but gave the most modest of programmers access to powerful graphical effects even on relatively slow machines such as the A500. This is made possible by the languages doing two things: Firstly by disabling the operating system, every CPU cycle can be utilised by your program and your program alone. Secondly, by giving the programmer specific commands for manipulating graphics and sound, these can be optimised to make sure they run as fast as possible.

Even though a good deal of speed can be gained with specialisation of commands, you will never be able to get the absolute speed of commands written in pure assembler. Even the best compiler will not be able to produce code as fast as hand written assembler – a human can make more advanced optimisations and take better advantage of the processor.

Power: Programn

With the power of assembler and the ease of a high level language, is Secal the answer to your programming prayers?

The problem is that assembler is nowhere near the easiest language to program in. With odd command names, bizarre types of addressing, the fact you have addressing and that you end up with very hard to follow code, all adds up to making assembler a hard language to learn. When coding with this you really do have to think the way the computer processor works, as you are coding on the single instruction level.

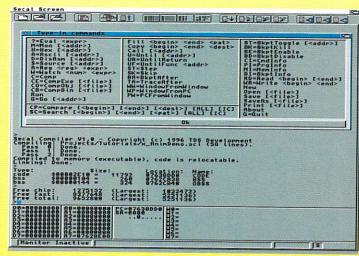
The point of Basic and high level languages such as Cobol, Pascal and C is to make coding more like writing a description of what you want the program to do. Allowing you to think more in terms of the problem you want solving, rather than how you can get the computer to solve the problem you have. All this extra ease of programming is at the expense of execution speed.

SECAL

Secal is an all new programming language and, unlike Blitz and AMOS, it is not exactly designed as a straight forward Basic, even though there are certain points that may make you think it is.

It describes itself as a language that integrates the elements of both low and high languages into one environment. Essentially Secal gives you an assembler compiler that allows you to use Basic style commands intermixed with the assembler code and the processor's data and address register names. The idea being that this makes for more readable code, far easier to maintain and update and yet keeps all the execution speed of a pure assembler version of the same code.

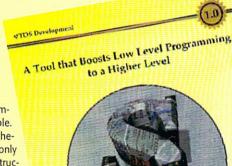
Secal makes this possible by limiting the



The main monitor screen has all the debugging tools you would expect



A full space invaders game with sounds and parallax scrolling is possible in a few hundred lines of Secal code



number of high level commands you have available. Along with standard mathematical operations, the only other real high level instructions are conditional commands - IF THEN, REPEAT UNTIL, WHILE DO and FOR DO. You may think this would not make a massive difference to a program, but studies have shown on average, almost 50% of program code is taken up with jumps and conditional commands.

This combination of assembler and high level commands allows you to have statements like this:

For d2:=d3+10 downto 0 do X:=X+d2;;

Where you are able to specify both processor data registers and Secal variables all in the same line. This allows you to take advantage of having regularly used variables stored in registers, while also having the convenience of being able to use normal variable



Installing

Secal is thankfully simplicity itself, due to the well used standard Amiga Installer. This gives you the choice of either a hard drive install, 3 DD floppies or 2 HD floppies. Accompanying the Secal program is a 122 page manual that outlines the use of the IDE including keyboard shortcuts, a short guide to the Secal compiler and programming commands. The final quarter of the manual deals with describing the additional library functions stored in the Secal.lib and

names for less important values. the Ext.lib.

It had to happen, there are only a finite number of three letter acronyms in the world and at some point they had to run out. Secal sports what is known as an IDE, nothing to do with the type of hard drive, Integrated Development but an Environment. This fascinating thing just refers to a combined editor, compiler and debugger. From one tool you can write compile and track down bugs. If anything this gives you a better environment for writing programs as you are not forever switching between a separate editor, shell compiler and separate debugger.

NTEGRATED

To help you along even more, a tool bar runs along the top of the screen. Though this cannot be changed by the user all of the most commonly used commands are here

for you, and any that are not more than likely have a keyboard shortcut.

SOCIETY

Both the debugger/monitor and program editor are accessed through the same screen with you switching between the two using a button on the tool bar.



The main editor is straight forward to use and acts like any normal Amiga text editor

ARGON

BOX

BASIC - Beginners All purpose Symbolic Instruction Code, originally referred to simple language designed by John G. Kemeny and Thomas E. Kurtz at Dartmouth College in 1963. To allow students to quickly pick up and learn basic programming skills. More generally refers to any language suitable for beginners, even though many recent Amiga languages called Basics go far beyond this

CPU cycle - Refers to the time it takes the CPU to process one instruction

processes of re-writing program code, so the same job is done but in less time

Secal.lib has your normal string manipulation functions, but the real interesting stuff can be found in Ext.lib. The functions in the library provide a simple way for you to handle Amiga screens and sprites, play music, sounds and animation - all within the Amiga's operating system.

The functions provided are quite flexible the music ones allow protracker modules to be loaded into memory off a disk and played when you like, along with samples that are already in memory.

On the graphic side of things, Secal gives you all the functions you need to create Amiga screens either single or double buffered and then to place sprites and sprite groups onto the screen. Functions are there to add masks to the sprites so you can move them over backgrounds. There is even a chunky to planar conversion routine.

Further functions give you file access with all memory allocation and de-allocation being automatically handled, control over the blitter and task priorities are also in there.

Secal is an interesting language, the ability to use both high level commands and assembler is not new. AmigaE has allowed you to do that for a good while now and AmigaE also allows object oriented programming, but then AmigaE is an advanced programming language. Secal seems to be aimed at people who want a more straight forward language that makes it quick to develop games but from a professional environment still gives full access to the Amiga's operating system and if you really want, direct access to the hardware.

I would say this is more for the semi-experience programmer, perhaps if you have already dabbled with Amos or Blitz and need something more advanced. The price is excellent but with only a few example programs to show you how to use the external libraries, the absolute beginner would probably struggle.



REOUIREMENTS

RED essential BLACK recommended





PRODUCT DETAILS

Product	Seca
Supplier	OTM
Price	£34.99
Tel	01827 312 302

SCAPES

J C U K E S	
85%	
90%	
93%	
89%	

n a fit of nostalgia the other day I flicked through some old issues of Amiga Computing, and was alarmed to find that my tenure as PeeDee ubermeister has spanned nearly three years. I'd like to be able to say that it seems like it was only yesterday that I tentatively urged my first submission into the drive, but I'd be lying.

Much has happened in that time. Once a proud computing galleon, the good ship Amiga has spent the best part of the mid-90s in the choppy ocean of uncertainty, occasionally appearing to remain afloat only thanks to valiant bucket work from its loyal sailors.

With all this in mind, I decided this month to introduce a new slant in Public Sector, highlighting some of the best and the worst PD and Shareware software which has graced my humble floppy drive over the years as well as the cream of the new releases - if you will, a veritable plethora of PD both past and present.

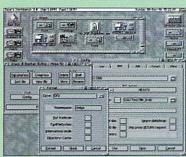
NACK

Programmed by: Stephan Bulling Available from: Classic Amiga Software Disk No: UT 200

The curiously named Knack is in fact a GUI archiver with a few extra features thrown in for good measure. It can pack and unpack files in DMS, Lha and Lzx formats. It is also capable of encrypting files using PGP, formatting disks and displaying text files, all through the use of external programs which can be specified on the preferences screen. The packing programs themselves are included on the disk, in case they are not already in place on your hard drive.

Knack requires the ever popular Magic User Interface, and consequently its interface is attractive, clear and configurable. The use of MUI means the program can be easily iconified and then called back with a quick click of the mouse. Knack also acts as a commodity, so it can be recalled or iconified from within Exchange.

Although it is by no means an essential program in that there are plenty of other GUIs around fulfilling similar roles, Knack is attractive and simple making it worth a



Knack: compress files with ease, and perform some other everyday operations whilst you're about it



Dave Cusick

snubs the January sales and opts instead for more cheap and cheery software

PERFECT PEEDEE PAST....

MAGESTUDIO

Programmed by: Andy and Graham Dean Originally reviewed: Issue 87 (June 1995) Available from: demo from PD libraries or Aminet; commercial version £15 from LH Publishing

When some Shareware authors receive a poor response to their requests for users to register, they decide enough is enough and simply don't bother in future. Anyone brave enough to admit they remember Moose Drive will probably be glad to know that it was the first and last Shareware program I was involved in producing. I didn't

actually do any programming - indeed, the majority of the

> project done by a friend mine by the name Graham Dean. Since then,

Graham has been a busy bloke. While

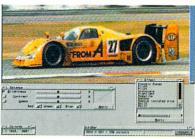
decided to write about

work on that

Shareware instead of actually writing it, Graham stuck with programming. After learning C he teamed up with his brother Andy to create an affordable but powerful Image Processing program. The original ImageStudio appeared in late 1994 and was warmly received by the Amiga press.

Hundreds of users registered and the considerably rewritten follow-up arrived a few months later. Soon after, LH Publishing took over the distribution of the program from Graham and Andy so that they could concentrate on other projects in their spare time - namely the Shareware TextureStudio and the recently released commercial package DrawStudio.

ImageStudio has proved so popular because it offers a great many features which were previously only found in expensive packages such as ImageFX and Photogenics. Through a beautifully simple interface the user can crop, texture and con-



ImageStudio offers power at an eminently affordable price

vert images, play around with the brightness and contrast, and perform a wealth of other operations. All the major image formats from all platforms are supported, as are subformats such as Transparent and Interlaced GIFs. ARexx support enables complex scripts to be developed, allowing users to automate complex series of operations so that they can be performed with a single click of the mouse.

A particularly innovative feature is the use of virtual memory as standard, with previous versions of the current image being stored on your hard drive. You can choose how many levels of undo and redo are available, so that if you perform a series of operations on an image and then decide the results are unsatisfactory, returning to the original image is a simple matter.

Since the release of version 2.0 several updates have appeared adding more features. These are available either from Public Domain libraries or from the ImageStudio web pages at http://www.ajdean.demon. co.uk/. The latest release is v2.3, which incorporates full support for CyberGraphX graphics standard and brings a printed manual into the bargain for registered users. To be honest, it is hard to see how the program could really be improved any more. Right from its initial release ImageStudio has been extremely stable (I know - I was a version 1.0 beta tester) and there are no obvious omissions from its impressive armoury of features.

The bottom line is that over 18 months after its initial release, ImageStudio 2 remains one of the best Amiga image processors around. It can handle everything most people will ever need to throw at it and, with registration only costing £15, it represents excellent value for money.

Version 2.3 supports

CyberGraphX... but

I've only got

AGA, so

there

PATHETIC PEEDEE PRESENT...

DANGER DOG

Programmed by: Virtual Vagabonds
Available from: Classic Amiga Software
Disk No: G 418

When I came to thinking about the worst software Public Sector has ever had the misfortune to investigate, I actually found myself in quite an interesting position. I generally don't review poor software in these pages, preferring to devote the space to more deserving programs; and besides, some of the least useful disks the column has been sent in the past have, I confess, found a more meaningful existence as blank floppies in times of need. For that reason, and I suppose because I have a strange and perverted sense of humour, I yelped with glee when I rammed this disk into my trusty 3.5" a couple of weeks ago.

DangerDogg is a platform game, and a rather feeble one at that. In the words of the German authors, "If you want complete a level you must move Doggy over all objects he must give the colours back." (Well, quite). This is rather more demanding than it initially sounds, principally because Doggy himself responds about as much to

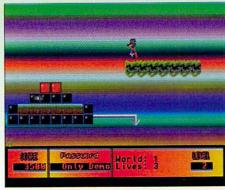


your joystick as government policy does to popular opinion.

Doggy leaps about (or, more often than not, plummets to his death) against a horrifically garish backdrop, and to the accompaniment of suitably weedy sound effects. His movements are so singularly graceless, his animation so wholly pathetic, and his range of actions so incredibly limited that not even the most action-starved games fan could fail to be unimpressed.

DangerDogg is painfully unplayable, utterly devoid of originality and completely uninspiring. From the pointless introductory screens with a digitiser to satiate his dog-related desires?) to the appallingly flawed gameplay, this game is, not to put too fine a point on it, dismal.

This leaves the self-respecting PD aficionado two choices. The first is to avoid it like the plague; the second is to download it, laugh hysterically, and then delete the files from your hard drive one by one. I'd opt for the second option – not only is it an education, but it's far more satisfying.



DangerDog: bobbins, on a stick

STAR DEFENDER

Programmed by: Matthias Bock Available from: Classic Amiga Software Disk No: G 402

When I was but a child, I would regularly return from one of my not infrequent parentally accompanied shopping trips in Macclesfield with a small cassette in a Bailey's carrier bag. From the outside, Bailey's appeared for all the world like any other toy shop, but for a small proportion of the population in the Macclesfield area, it offered far more: an Acorn Electron budget games rack.

Over several years I accumulated a scarily large collection of £1.99 and £2.99 gems, many from the Micro Power stable – programs which had for the large part been taken from

listings in the pages of Electron User magazine (which way back in the mists of time was produced by Database Publications, which became part of Europress, which became part of IDG. It's a funny old world). The vast majority of these

were standard budget fare, playable for a couple of hours before tedium set in whereupon they would be consigned to a shelf forever. Some, such as Gauntlet, were not.

The Gauntlet of which I speak was not, as might initially be thought, a conversion of the

Atari arcade game. It was in fact a Defender clone, although being a mere slip of a lad I was totally unaware of this at the time.

At first I had been disappointed with my new purchase – a month's pocket money invested in a game which appeared so fiendishly difficult that my friends and I found it difficult to last more than a few seconds. Then, on a Christmas family visit,

The magnificently playable Star Defender



Why can't all games be this addictive?

my Electron-owning cousin's Gauntlet prowess etched such an indelible mark on my easily influenced young mind that I swore there and then that I too would become a Gauntlet-God.

Many hours were spent hunched over

that beautiful beige keyboard, my little fingers struggling to master the awkward key combinations and my reactions fighting a losing battle against the hordes of marauding aliens. And lo, as days turned to weeks, my mastery of this arcade classic grew. I topped the hiscore table, and eventually succeeded in registering a score so high that I had completed the game twice over before finally succumbing to a hurtling mutant.

Of course, all this was so long ago that my Defending brilliance has since paled significantly. The passage of time has tempered my reactions, and the joystick is simply too modern an innovation for hands that were baptised in all things digital right back at the dawn of home computing.

But despite my current ineffectual Gauntleteering, I can see in Star Defender echoes of that addictive, fluid gameplay which ensnared me during my formative years. The graphics might be positively 8-bit, but the action is so unrelenting and the pace so blistering that few could fail to be enamoured with this Amiga-ised blasting frenzy. One to invest in, methinks.



GIF TOOLKIT V1.4.1

Programmed by: Stephan Schupfer Available from: home page at http://www.sbox.tugraz.ac.at/home/schupfer/GIF-Toolkit/and possibly on Aminet soon

With the increasing focus on the Internet throughout the computing world, and especially on the World Wide Web, programs capable of manipulating GIF images are becoming ever more valuable. Several image processors, such as ImageStudio (reviewed again elsewhere in these pages), are capable of handling Interlaced and Transparent GIFs, but when it comes to dealing with GIF animations the choice of programs is rather more limited – there's the shell-based WhirlGIF to create them, and IBrowse to view them with. And that was about it, until this little offering came along.

The marvellous MUI-based GIF Toolkit offers support for every type of GIF 89a file imaginable, including animations. In single image mode, after loading in a picture the program will display it in a scrollable window on the allocated public screen. It is then possible to play around with the image, making it interlaced or transparent, and choosing the appropriate background or transparent colours using attractive requestors. Alternatively you can create or view animations using a separate straightforward but comprehensive requestor.

BLACKBURN

LIVERPOOL

DERBY

BIRMINGHAM

COVENTRY

GIF Toolkit

Single Picture

Work: Graphics/Picture s/PremiershipMap.gif

Extrassized

Consisted

Width: 640
Height: 490
Local Colormap

Sizelet finansparent Color

Sizelet fi

GIF Toolkit makes creating transparent and interlaced GIFs and GIF animations a straightforward task

Using GIF Toolkit is infinitely easier than grappling with WhirlGIF, so if you need to create GIF anims there is simply no better Amiga program. On the down side, at times it can be painfully slow to use on less powerful Amigas – quite probably as a side effect of using MUI. Certainly 020 owners will find themselves twiddling their thumbs rather too often for comfort.

GIF Toolkit is a Shareware program, and

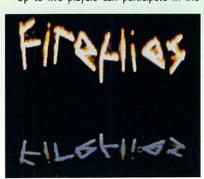
the freely distributable demo version doesn't allow you to save your lovingly created efforts. The registration fee is 35DM (or its approximate equivalent in a range of currencies – Mr Schupfer has certainly offered enough ways to pay...). Its price might deter the casual GIF animator but if you're likely to be doing this sort of thing regularly, GIF Toolkit is well worth investigating.

F IREFLIES

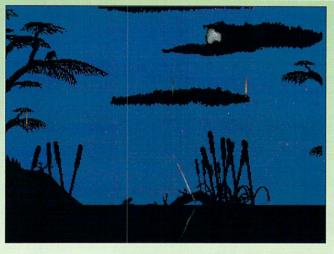
Programmed by: Philip Holden Available from: OnLine PD Disk No: OG 293

New ideas for games are, unfortunately, something of a rarity these days. Once upon a time radical new diversions such as Lemmings or Populous appeared on a fairly regular basis, but these days precious few novel gaming concepts are in evidence on any format – least of all our beloved but beleaguered Amiga. Therefore, whilst Fireflies cannot boast stunning graphics or sound effects and is probably not the most addictive game ever to grace the average Microvitec monitor, it certainly deserves commending for originality if nothing else.

Up to five players can participate in the



Fireflies: a new gaming concept



Graphically stunning Fireflies isn't, but original it most definitely is

action. Each assumes the role of a firefly, racing around the skies above a pond during the hours of darkness. The objective is to send the other fireflies plummeting to their death by forcing them to career headlong into you as you hover in the darkness. The fastest moving firefly in any collision is temporarily stunned and will begin falling towards the waters below where, if he cannot recover fast enough, he will be consumed by a hungry frog. All this doubtless sounds fairly bizarre; suffice it to say it makes for a fairly entertaining game when in company.

Also deserving of a mention at this point is the fascinating ReadMe which accompanies Fireflies. The author has outlined a series of potential improvements to the gameplay which could lead to what would effectively be an online ecosystem, with people controlling fireflies, frogs, birds, pike and tadpoles. Mating would be possible as would a degree of social interaction. All this sounds remarkably fascinating and, if any of this ever comes to be realised, a networked Fireflies could definitely be something to watch out for.

Overall then, whilst it is unlikely to appeal to anyone for a vast length of time in its present form, this game is absolutely brimming over with potential and is praiseworthy for this alone. The fact that it can be hugely entertaining when there are several players to hand is simply a terrific bonus.

A DESIGN

FOR LIFE

I want to hear from you if you have any program, whatever its purpose, which you consider worthy of review. Whether it will be freely distributable Public Domain, Shareware or Licenceware, if you feel it is of sufficient quality to merit coverage then stick it in a jiffy bag or padded envelope and send it in with all haste.

Although Public Sector cannot possibly hope to cover all submissions, I promise I'll at least look at your work even if it is yet another Lottery program or Klondike cardset. It does make my job a lot easier though if disks are clearly labelled. Please also include a cover letter detailing the disk contents and price, and giving some basic instructions. The magic address is:

Dave Cusick, PD submissions Amiga Computing, Media House Adlington Park, Macclesfield SK10 4NP

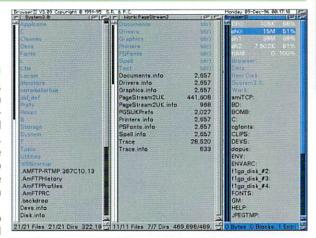
BROWSER II v3.09

Programmed by: Pierre Carrette and Sylvian Rougier Available from: OnLine PD Disk No: OU 350

Brilliant though it is as Windows, Icons, Menus and Pointers systems go, Workbench can still be irritating at times, hence the popularity of file managers such as DOpus and FileQuest (which was reviewed last month). Browser II goes one step beyond these file managers. Rather than being limited to two windows, it allows multiple windows to be displayed at the same time, all containing a wealth of information about files.

It operates in a similar manner to Workbench, in that files can be dragged between windows and then dropped to copy them. It is capable of executing programs at the press of a button. Menus can also be created, meaning you can ensure your most frequently used commands are available at the click of a button (or the pressing of a hotkey).

Browser II features asynchronous file operations (something Workbench itself cannot boast!), full multi-user/network support, the



Browser: potentially you need never have to use Workbench again ability to display and deal with the contents of archives as if they were ordinary directories, and a great deal more.

In short, Browser II could completely replace Workbench for many Amiga users. At first, everything seems a little alien, a little confusing; but after playing with the program for a short while, it becomes clear that it has a great deal to offer.

SCREENTAB

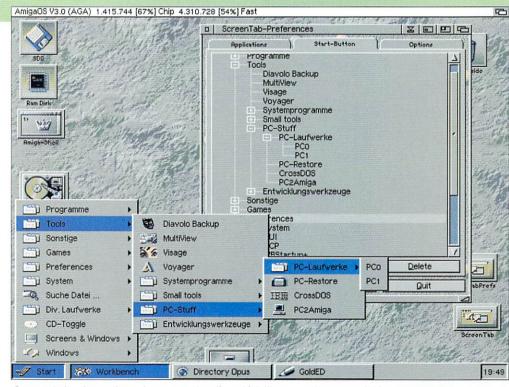
Programmed by: Michael Link Available from: Aminet

For a long time Amiga owners have ridiculed Windows, Microsoft's attempt to drag the PC into the 1990s. However in recent months it seems programmers have been keener to emulate than humiliate, because Aminet has been positively jampacked with Windows 95 taskbar emulators. Possibly the best yet is this rather superb utility.

Run as a commodity, Screentab calls up a lovely font-sensitive taskbar whenever the mouse is moved to the bottom of the screen. This taskbar enables the user to quickly flick to any currently open screen, or to run a program by selecting it from the Start menu (yes, that's correct, the button which featured so prevalently in Microsoft's dreadful Rolling Stones-accompanied adverts a year ago).

ScreenTab is Shareware, and the registration fee is 10DM. With a beautiful MUI preferences program available to allow easy configuration, a host of added extras such as "Plug-ins" and much more to offer, ScreenTab really does have everything going for it. The taskbar itself is one of the more useful aspects of the Windows 95 interface and you won't find it more brilliantly implemented on the Amiga.





Screentab: here's one the author prepared earlier, which illustrates the power of this great program



CAPITAL PUNISHMENT

Alfred Chicken CD
Alien Breed Tower Assault CD
Alien Breed/Quack
Aminset I CD
Banshee CD

Alfred Chicken



Primal Rage

Base Jumpers	CD	£14.99				FOR AMIGA			Pro Tennis Tour	Floppy	
Battle Chess	CD	£16.99	THEAM	ΛIG	A CL	UBWITH N	10		RBT Baseball	Floppy	
Beavers Black Crypt	CD	£14.99 £14.99				The state of the s			Reach for the Skies	Floppy	
Brian Lion	CD	£22.99	M			HIP FEE			Reunion	Floppy	
Brutal Football	CD	£9.99	Title		Price	Title	Format Pr	ice	Rick Dangerous 1 or 2	Floppy	
Bubba N Stix	CD	£9.99	3D Pool	Floppy	£6.99	Fields of Glory	Floppy £14	.99	Rise of the Robots	Floppy	
Bubble an Squeak Bump + Burn	CD	£9.99 £18.99	A1200 Budle Abandoned Place	Floppy		Final Gate (Excellence) Flashback	Floppy £29		Roadkill	Floppy	
Cannon Fodder	CD	£18.99	Action Fighter	Floppy		Football Director 2	Floppy £4		Robinsons Requiem		
Cannon Fodder I	CD	£14.99	Adams Family	Floppy		Football Glory	Floppy £8		Robocop 3 Rodland	Floppy	£9.99
Castles 2	CD	£9.99	Advanced Fruit Machine	Floppy	£5.49	French	Floppy £14	.49	Scooby Doo & Scrapy Dog	Floppy	
Chaos Engine	CD	£18.99	Aladdin	Floppy	£22.99	Frontier Elite 2	Floppy £18	.99	Sensible Golf	Floppy	
Chuck Rock 2 Clockwiser	CD	£17.99 £4.99	Alien 3 Alien Breed 2 (A1200)	Floppy	£9.99	Gehesia Gem X	Floppy £16 Floppy £6	99	Sensible Soccer	Floppy	£8.99
Corkers	CD	£4.99	Alien Breed 2 (A500)	Floppy		German	Floppy £14	49	Sensible World of Soccer		
Deep Core	CD	£13.49	Alien Breed 3D	Floppy		Globdule	Floppy £12	.99	Shadow of the Beast 3	Floppy	£14.99
Diggers (Oscar)	CD	£4.99	Alien Breed 3D2 (Klingon)			Gloom	Floppy £12	.99		Floppy	
Disposable Hero	CD	£19.99	Alien Breed Special Ed.			Graham Gooch	Floppy £14		Silk Worm	Floppy	
Donk Dune 2	CD	£14.49 £16.99	Alien Worlds Allo Allo	Floppy Floppy	£8.99	Graham Taylors Grand Prix (Microprose)	Floppy £8	00	Silly Putty	Floppy	
Emerald Mines	CD	£12.99	American Gladiators	Floppy		Guardian	Floppy £7.	99	Sim City	Floppy	
Epic Encyclopedia	CD	£24.99	Arcade Pool	Floppy	£7.49	Heart of China	Floppy £14	.49	Sim Earth	Floppy	
Fears	CD	£9.99	Armour Gedon	Floppy	£18.50	Heimdall	Floppy £16	.99	Sim Life	Floppy	
Fire & Ice	CD	£17.99	Assassin (Sec)	Floppy	£9.99	Heimdall 2	Floppy £24	.99	Simon the Sorcerer Sleepwalker	Floppy Floppy	
Fresh Fish Volume Global Effect	CD	£14.49 £8.99	Assassin Special Edition Base Jumpers	Floppy	£9.99	Heroquest Heroquest Return of the	Floppy £12		Soccer Kid	Floppy	
Gloom	CD	£9.99	Beneath a Steel Sky	Floppy		Humans 3	Floppy £29			Floppy	
Grandslam Collection	CD	£24.99	Bionic Commando	Floppy		Hyperaction	Floppy £14.		Space Ace	Floppy	
Guardian	CD	£9.99	Black Crypt	Floppy	£14.99	Impossible Mission	Floppy £9.	.99	Space Crusaders	Floppy	
Guiness Disk of Records		£22.99	Blinky Scary School	Floppy	£6.99	Indiana Jones (Last Crusade)	Floppy £9.	.99	Space Crusaders Data Disk		
Heimdall 2 Insight Technology	CD	£24.99 £22.99	Blitz Basic Blob, Blaster, Cyberpunks	Floppy	£28.99	Indiana Jones (Special) Int Open Golf	Floppy £28. Floppy £12	99	Space Hulk	Floppy	
James Pond 2	CD	£14.99	Blobz	Floppy	£14.99	Inter Word	Floppy £9.	99		Floppy	
Jet Strike	CD	£14.99	Bloodnet	Floppy	£24.99	International Golf	Floppy £14	99		Floppy	
Jungle Strike	CD	£14.49	Body Blows	Floppy	£14.99	Italy 90	Floppy £4.	.99		Floppy	
Kid Chaos	CD	£14.49	Body Blows Galactic	Floppy		Jet Strike	Floppy £14	.99		Floppy	£9.99
Kingpin Legends	CD	£7.99 £14.99	Bubble an Squeak	Floppy		Jimmy White Snooker John Madden American	Floppy £14			Floppy Floppy	£9.99
Little Devil	CD	£16.99	Cannon Fodder I	Floppy	£14.99	Jungle Strike	Floppy £14.			Floppy	
Man Utd	CD	£9.99	Cannon Fodder 2	Floppy	£18.99	Jurassic Park	Floppy £14.	.49		Floppy	
Mean Arenas	CD	£10.99	Capital Punishment	Floppy	£28.49	Kick Off 3	Floppy £8.	.99	Super Stardust	Floppy	
Microcosm	CD	£9.99 £17.49	Carl Lewis Challenge Celtic Legends	Floppy	£9.99	Kick Off 96 Kids Rule OK	Floppy £19.			Floppy	
Morph Network CD 2 (with cable)	CD	£28.49	Championship Manager	Floppy	£18.99		Floppy £14.	99		Floppy	
Nick Faldos Golf	CD	£17.99	Chaos Engine	Floppy	£14.99	Kings Quest 5	Floppy £16.			Floppy	£5.99
PGA Euro Tour	CD	£16.99	Cinemaware Double Bill	Floppy	£19.99	Laser Squad	Floppy £9.	.99		Floppy	
Pinball Fantasy	CD	£17.99		Floppy		Last Ninja 3	Floppy £8.			Floppy	
Power Drive	CD	£18.99 £19.99	Clockwiser Club and Country	Floppy	£12.99	Legacy of Sorisal Legend of Kyrandia	Floppy £22. Floppy £24.	99		Floppy	
Rise of Robots Roadkill	CD	£14.99	Curse for a Corpse	Floppy	€18.99	Legends of Valour	Floppy £14.			Floppy	
Ryder Cup Golf	CD	£19.99		Floppy		Leisure Suit Larry	Floppy £16.	99		Floppy Floppy	
Sabre Team	CD	£22.99	Cytron	Floppy	£14.99	Lemmings	Floppy £19.	.99		Floppy	
Sensible Soccer	CD	£12.99	Dalek Attack	Floppy	£12.99	Liberation	Floppy £16.	.99		Floppy	
Simon the Sorcerer Soccer Kid	CD	£19.99 £17.49	Deathmask Desert Strike	Floppy		Lion King Lord of the Rings	Floppy £14. Floppy £19.	99	Tracksuit Manager 96/97		
Sound Library	CD	£14.99	Die Hard 2	Floppy		Lost Treasures of Info	Floppy £22.	99		Floppy	
Space Hulk	CD	£16.49	Dino Detective Agency	Floppy	£16.99	Lost Vikings	Floppy £19.		Turbo Trax	Floppy	
Speedball 2	CD	£18.99	Dinosaurs	Floppy	£14.99	Lotus Esprint Turbo	Floppy £8.			Floppy	£9.99
Spiers Legacy	CD	£19.99	Disposable Hero	Floppy	£14.99	Magic Pockets	Floppy £9.			Floppy	
Sports Football Star Crusader	CD	£17.95 £14.49	DNA Double Bill	Floppy Floppy	£14.49	Man Utd Europe Monkey Island 2	Floppy £16.			Floppy	
Subwar 2050	CD	£14.99	Double Dragon	Floppy	£12.99		Floppy £8.	50		Floppy	£9.99
Summer Olympics	CD	£18.99	Dracula	Floppy	£18.99	Mr Blobby	Floppy £8.			Floppy	
Super League Manager		£9.99	Dune 2	Floppy		Multi Soccer Manager	Floppy £4.			Floppy Floppy	£9.99
Super Methane Bros	CD	£9.99	Dungeon Master 2	Floppy		Nick Faldos Golf	Floppy £9.			Floppy	
Super Skid Marks Super Street Fighter 2	CD	£7.99 £14.99	Early Essentials Elemania	Floppy		Nigel Mansell Megny Warriors	Floppy £14. Floppy £12.			Floppy	
Super Street Fighter Turbo		£14.99		Floppy		On the Ball	Floppy £12.		World Class Cricket	Floppy	
The Clue	CD	£20.49	Elite Plus	Floppy	£4.99	Operation Thunderbolt	Floppy £5.	99		Floppy	
Theme Park	CD	£21.99	Epic	Floppy	£18.99	Oscar 2	Floppy £4.	99	Worlds of Legend	Floppy	
Thomas the Tank	CD	£9.99 £17.99		Floppy		Overkill Overlord	Floppy £14.	49		Floppy	
Ultimate Body Blows Universe	CD	£24.49	European Championship	Floppy	£9.99	Pacific Island	Floppy £22. Floppy £12.	99			
Vital Light	CD	£4.99	Exile Data	Floppy	£7.99	Parosol Stars	Floppy £9.			Floppy	
Wembley Int. Soccer	CD	£13.99	Exterminator	Floppy	£6.99	PGA Euro Tour Golf	Floppy £15.	49		Floppy	
Wing Commander	CD	£18.99	FI Circuits		£4.99	Photon Paint	Floppy £12.	99	Xtreme Racing Zeewolf 2	Floppy Floppy	£74.99
Worms Zool	CD	£18.99 £14.99	FI World Championship Fears	Floppy	£14.99	Pin Ball Pinball Fantasy	Floppy £9.	99		Floppy	
AUUI		MIT.77	· unit d	· IOPPI	-1.11	· ····································	L7.				

- * We stock the biggest selection of Amiga Games in the UK * Give the best prices possible * Give Free expert technical advice (24 hours) * Plan to have 10 stores in UK in 1997 * Offer Pricematch* * Love the Amiga.
 - * We don't cash cheques for games out of stock * Sell other formats * Make promises we can't keep
 - * Just sell the game (we give after sales service) * Just do Mail Order * Charge a membership fee.

HELP US HELP AMIGA

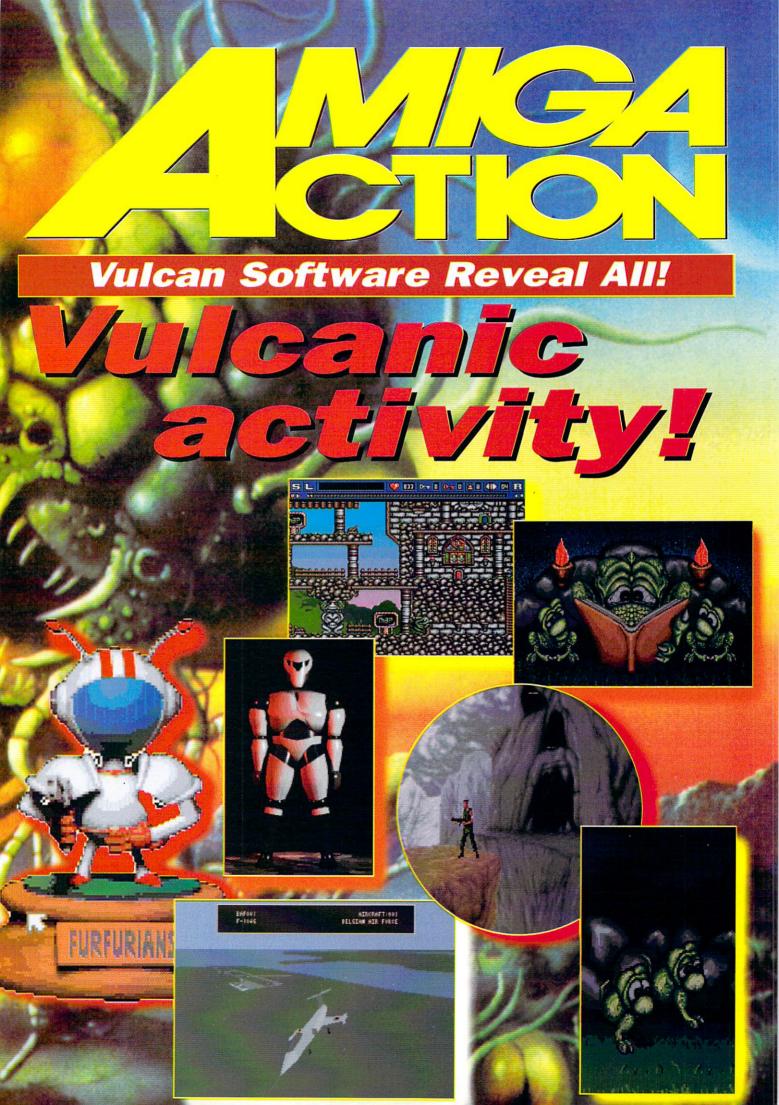
166 BIRCHFIELD ROAD EAST, NORTHAMPTON NN3 2HF

Order Lines: (01604), 722499

Technical Support: (01623) 455398

(01604) 643049 OUT OF HOURS

Fax: 01604 722498 E-mail: 10640.1422@compuserve.com.



By Hugh Poynton

NGLO **ESCOM** FOR GO

The announcement by Anglo that they wish to buy 19 Escom stores and reopen them under the Silica name could be good news for Amiga owners. Since Escom went bust last year the stores have remained boarded up. In the past Silica have supported the Amiga considerably by stocking Amiga hardware and games.

So keep your fingers crossed, who knows you might get one on the end of your street!

ENFORCER

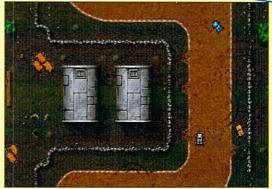
Spring will see the release of Vulcan's new Doom clone, The Enforcer. Work on the project so far is quite advanced and from what we've seen of the game, it promises to be one of the best Doom clones for the Amiga. Unlike many previous attempts at Doom clones, The Enforcer runs at a good speed without you needing to reduce the view window down to the size of a postage stamp. For further details contact Vulcan on 01705 670269

Fancy re-enacting the massive encirclement battles that killed millions of Germans and Russians alike during the Second World War and led to the starvation of thousands of Russian civilians? Well, you're in luck, because Guildhall Leisure has released a budget version of the 1988 wargame White Death.

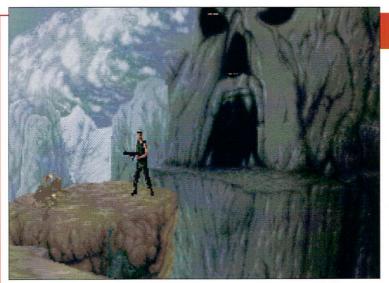
It focuses on The German invasion of Russia during the Second World War, so if you're an Amiga wargamer who doesn't get depressed easily why not snap up this bargain? For further details contact Guildhall Leisure on 01302 890000

Teenage software team Fortress is all set to release its first commercial release early in '97. Max Rally will be compatible on all Amigas with 1.5 Meg of RAM and above. The game is a four player racer that aims to redress the failings of other multiplayer race games. Fortress tells us that Max Rally will only be available via mail order and will cost no more than £14.99.

For more information phone Fortress on 01902 834065



Teenage Kicks · Max Rally



From this screen shot it looks like Hell Pigs uses backdrops from Scooby Doo

HELL PIGS

By the spring of 1997, Vulcan will introduce the world to The Hell Pigs, what it believes to be the biggest graphic adventure game ever. The Hell Pigs will be released on floppy a month before being released on CD -22 to be exact.

The game takes up a staggering 20 Mb, so your machine's going to have to be pretty souped up to run it from the hard drive.

Hell Pigs follows four hard blokes as they investigate a recent UFO visitation. Your job is to guide these four Mitchell brothers-a-likes through dangerous caverns and bases. The floppy version offers a filmatic scripted storyline, excellent back drops and character animations, while the CD will have full motion video and actor speech throughout - your own interactive movie no less.

Vulcan has also taken the unusual step of voluntarily giving Hell Pigs game an 18 certificate because of the game's strong language and violent scenes. From this information it sounds like it might well turn out to be some sort of a weird cross between the X Files and Platoon.

Hell Pigs is due out sometime during spring '97, so keep your eyes peeled - we'll get a review done just as soon as possible...

SELECT

TRACK

Biggles meets Mad Max: MicroLyte Warriors RACE SELECT QUALIFY KART

UNPUBLISHED. WHY?

You would have thought that in times like these, any software company that still publishes Amiga games and has a gram of sense would be snapping up the best efforts of the software developers out there. This is seemingly not the case.

While looking for games to review this month we noticed a couple of games that were due for release from a couple of pretty well known games companies. We found demo versions of each on the Aminet and phoned about asking if I could do reviews on the two games. The answer was that I'd just have to ask the developer because it no longer had anything to do with the projects. The first was a sequel to an old Amiga favourite...

Fabio Bizzetti's Virtual Karting caused a bit of a stir when it came out last year. Now, Fabio has come up with Virtual Karting Deluxe, a stunning looking sequel. Unfortunately, Fabio has been unable to find a publisher, so the only way you will be able to find this game in the near future will be on the

> Although not totally devoid of bugs, the demo is an excellent looking game. The graphics are top quality, the carts responsive, and the sound is excellent (the high pitched 100 cc engines actually do sound like one of those irritating Honda scooters).

> The second game was an ace little flying shoot 'em up called Microlyte Warriors. It provides you with the opportunity to fly 'Catch the Pigeon' style planes around a landscape chock full of fanciful buildings and huge windmills. We're not sure if there is a plot to the game, and frankly, even if there was it would be totally irrelevant. The fun of this game is that it is pure arcade fun.

You pit your microlyte craft against three other opponents; two are controlled by the computer, and two can be flown by human players (of course three are flown by the computer if there is only one human player). This can be immense fun, flying around in your flimsy looking biplane, shooting down your mate's ornithopter (sorry, being technical - wing flapping plane to the

Let's hope these two games get themselves publishers because they are both great fun, and projects that with a little investment would sell like hotcakes.

Absolutely Fabio

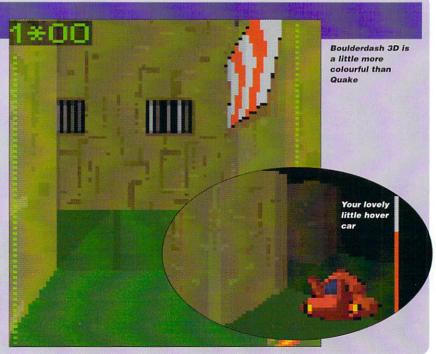
BOULDERDASH 3D

OPTIONS

In a similar vein Silltunna is currently deciding what to do with its scheduled Christmas release, Boulderdash 3D. Doubt now lingers over the release of this fun 3D 'doom in a hovercraft' puzzler. For further information call Silltunna on 0114 285 4932



Unfortunately the baddies in Boulderdash look far too cute to be scarv.



ACTION REVIEW

t's a couple of years since the Bitmap Brothers released its smash hit The Chaos Engine and the game sold like hotcakes because of the blend of playability, superb graphics and sound. The long awaited sequel, cunningly entitled The Chaos Engine 2, will be released this Christmas, virtually assuring the Bitmap Brothers another runaway success.

The story is simple enough. Professor and mad bloke extraordinaire Baron Fortesque builds a time machine which he christens The Chaos Engine (it's got to sound sinister and scary you couldn't be calling your time machine The Luv Bug could you now?)

This cowboy contraption blows up because he's been using dodgy spare parts or something and four hapless characters are lost in time. The only way they can get back is to help Fortesque rebuild his dodgy machine. The one who makes the greatest contribution and gains the most points is granted his freedom.

You can choose to be one of four characters: The Gent - a pretty swish looking character with a pony tail (always a sign of quality) and a trench coat. Despite being armed with a pistol, he relies more on his sense of cool to keep him out of danger.

Then there is the Navvie - a bloke who looks like Bob Hoskins with a Zapata moustache and a lanky mop top. The slightly boring Brigand just looks shady and nondescript and finally, there is the Mercenary. It's not easy describing this guy because he just looks plain bizarre. The closest I can think of would be a grown up Charlie Brown with a psychotic grin and a pair of extremely thick Coke bottle bottom glasses.

Many things remain relatively unchanged from the original Chaos Engine. However,



Its celebrity Chaos Engine! The Marti Pellow/Duncan Goodhew deathmatch

Right, outside now! Hugh **Poynton takes on** four hard blokes. And loses.

unlike the original, CE2 puts more emphasis on having two players competing for the same prizes which adds considerable pressure and excitement to the game.

The aim is also pretty much the same as the original - pick up as many bonus points as possible and find the key that enables you to leave that level and exit before your opponent. Sounds simple? Well it's anything but - when you're going head to head arena already packed with bad guys, the

won't pose much of a threat. Alternatively you can hide and mug the guy when he steps in your direction.

Chaos Engine also incudes a number of those little touches that add to a game. For instance, when your character runs out of ammo and you press your fire button, the little bloke faces the screen and gives a big comical 'ah well' type shrug. If you are trying to dodge enemy fire, the characters can flatten themselves against walls in a 'Starsky and Hutch in a gunfight' fashion. Another touch differing from the original Chaos

Engine is that you can run up stairs and jump down from parapets, adding (literally) another dimension to the game.

Chaos

Engine 2 is a

great game. If

you don't have the original, go and buy this. If you do, it differs sufficiently from the original to make it worth the money, so go and buy it anyway. There is everything you'd want from a game here. The graphics are smooth and

flowing, the action non-stop and there is a huge amount of playability.



Handsome bloke that Baron Fortesque. Almost fancy him myself

THE LOW-DOWN **PUBLISHER** Time Warner Interactive **DEVELOPER** The Bitmap **Brothers**

CONTACT 0171 702 3643 PRICE £29.99

DISKS 3

GRAPHICS 90% OUND 89% PLAYABILITY 92%

REVIEWED BY HUGH

OVERALL SCORE



Over 100 Titles From Guildhall Leisure Services the Amiga specialists

New-Releases

<i>Title</i> Euro League Manager	Publishers Manyk	All Amigas Yes	A1200 Only	RRP £19.99
Basket Island	Manyk		Yes	£19.99
Minskies Furballs	Binary Emotions	Yes		£19.99
Gun Fury	Binary Emotions	Yes		£19.99

No.1 Hits from Microprose & Electronic Arts

		THE RESERVE OF THE PARTY OF THE			THE RESIDENCE OF THE PARTY OF T		
Title	All Amigas	A1200 Only	RRP	Title	All Amigas	A1200 Only	RRP
Special Forces	Yes		£9.99	F19	Yes	1310-1490-1411-1 3 0	£14.99
Starlord	Yes		£9.99	Colonization	Yes		£14.99
F117A	Yes		£9.99	Fifa Soccer	Yes		£14.99
Dog Fight	Yes		£9.99	PGA Golf	Yes		£14.99
Impossible Mission	Yes		£9.99	Theme Park	Yes		£14.99
B17	Yes		£14.99	Wing Commander	Yes		£9.99
Fields of Glory	Yes		£14.99	Desert Strike	Yes		£9.99
UFO	Yes		£14.99	Road Rash	Yes		£9.99

Quality Software at Great Prices

Title	All Amigas	A1200 Only	RRP	Title	All Amigas	A1200 Only	RRP
Battle For The Ashes	Yes		£4.99	Dreadnoughts Plus	Yes	THE RESERVE TO SERVE THE PARTY OF THE PARTY	£9.99
World Class Rugby '95	Yes		£4.99	Dr Plummets House Of Flux	Yes		£4.99
Emlyn Hughes International Soccer	Yes		£4.99	Bomber Bob	Yes		£4.99
Bubble and Squeak	Yes		£9.99	Jigsaw Puzzlemania	Yes		£4.99
Rugby League Coach	Yes		£9.99	Daily Double Horse Racing	Yes		£4.99
Wembley Rugby League	Yes		£9.99	F1 Grand Prix Circuits	Yes		£4.99
Graham Gooch World Class Cricket	Yes		£9.99	Multiplayer Soccer Manager	Yes		£4.99
Superleague Manager	Yes		£9.99	Centrefold Squares	Yes		£4.99
Graham Gooch Test Match Special	Yes		£9.99	European Superleague	Yes		£4.99
Super Tennis Champs	Yes		£9.99	Colossus Chess X	Yes		£4.99
Super Tennis DataDisk	Yes		£7.99	Rugby Coach	Yes		£4.99
Odyssey	Yes		£9.99	Football Director 2	Yes		£4.99
Exile	Yes		£9.99	International Arcade Action	Yes		£4.99
Exile Data Disk	Yes		£7.99	Gearworks	Yes		£4.99
Wembley International Soccer	Yes		£14.99	Fools Errand	Yes		£4.99
				Subversion	Yes		£4.99
Early Essentials 3-7yr	Yes		£14.99	Leeds United	Yes		£4.99
Junior Essentials 5-11yr	Yes	Award	£14.99	Deluxe Strip Poker	Yes		£4.99
English 6-16yr	Yes	Winning	£14.99	Genesis	Yes		£4.99
French 8-16yr	Yes	edilicating	£14.99	Blitzkrieg	Yes		£7.99
German 8-16yr	Yes	educational	£14.99	White Death	Yes		£7.99
Essential Science 5-12yr	Yes	software	£14.99	Worlds At War	Yes		£7.99
Essential Maths 5-12yr	Yes		£14.99	Action Stations	Yes		£7.99
Maths(Numbers) 6-16yr	Yes		£14.99	50 Great Games	Yes		£7.99
Maths(Geometry) 6-16yr	Yes		£14.99	Deluxe Strip Poker 2	Yes		£7.99
Maths(Statistics) 6-16yr	Yes		£14.99	Treble Champions 2	Yes		£9.99
Maths(Algebra) 6-16yr	Yes		£14.99	World Of Soccer	Yes		£9.99
Geography 5-11yr	Yes		£14.99	Test Match Cricket	Yes		£9.99
Structured Spelling Ud 9 Sp LD	Yes		£14.99		Yes		£9.99
Spelling & Punctuation	Yes		£14.99	Big 100 Club Football	Yes		£9.99
Dinosaurs All Ages	Yes		£14.99	Club & Country	Yes		£9.99
			1,000,000	World Of War			
Naughty Ones	Yes		£4.99	Skidmarks	Yes Yes		£14.99 £7.99
InterWord	Yes		£9.99				
InterTalk	Yes		£9.99	Super Skidmarks	Yes		£14.99
InterBase	Yes		£9.99	Super Skidmarks DataDisk	Yes		£7.99
InterSpread	Yes		£9.99	Blitz Basic 2.1	Yes	V	£29.99
InterOffice	Yes		£19.99	Guardian		Yes	£7.99
Gloom Deluxe	Yes		£9.99	Roadkill		Yes	£7.99
Touring Car Challenge	Yes		£14.99	Legends		Yes	£14.99
Approach Trainer	Yes		£14.99	Fears		Yes	£9.99
Cover Girl Strip Poker	Yes		£9.99	Virtual Karting		Yes	£14.99
Turning Points	Yes		£9.99	Gloom		Yes	£9.99
Napoleonics	Yes		£9.99	Blitz Support Suite	Yes		£14.99

Most titles are available from Electronics Boutique, Game Ltd, Premier Mail Order, Special Reserve, Software Plus and all good Amiga stockists. If you are unable to purchase any of the above games then please order directly from

Guildhall Leisure Services Ltd.

Unit 15 Guildhall Industrial Estate, Kirk Sandall, Doncaster, S. Yorks, DN3 1QR.

Tel: 01302 890000/Fax: 01302 890010

Please add £1 to cover Post and Packaging.

Please make cheques payable to: Guildhall Leisure Services Ltd. Or pay by Credit Card (Visa only)

Please allow 14 days for delivery.

(01702) 306060

PDSoft

303061 Zoom 2 BCI Net Foring

F1 Licencevers Scene **CBM Volume 2**

FLASH ROM - MULTI PACKI

Atari STeM Package v0.99 (Thi

Image file is necessary. (You must create TOS.IMG) * bug removed: BIOS bconi returned 39/13 but still dis * Windows Support

origman. relop programs. - p ork (yes, a CPC is er rencessing)

MAC SENSATION

217 - 219 Hamstel Rd - Southend-on-Sea, ESSEX, SS2 4LB sales.pdsoft@cableinet.co.uk

Web Page:

www.pdsott.go

Choose a free CD with every 25 you spend.

Spend 25 and choose 1 free CD Spend 50 and choose 2 free CD Spend 75 and choose 3 free CD's etc

Office & Retail Outlet open Monday to Saturday 9:30 to 7pm - Tel (01702) 306060 & 306061 - Fax (01702) 300115 Please add 1.00 per title for UK P&P & 2.00 for oversea's Airmail - Order via email & get 10% off your orders total. Check your Web pages (updated every day) for special ofers and new releases. Special offers running every day.



ore than 4 years after its inception, ninet now holds the equilyllent of 9.000

Since the release of Aminet 14 more than 500MB has appeared. The current

ZOOM 2

AMINET 15

AMINET SET 3 inexpensive upgrade-path) aswell as a couple of commercial games.

ninet Set 3 is also featuring 900 3D jects, 240 textures and 459 mods, nich will not appear on the regular ninet CD-ROM series.

edition has a special focus on anima-tion's, 143 MPEG animation's were

124MB of Graphics and So 28MB of Development Soft 5MB of Disk and HD tools 30MB of Documents 13MB of Games

Pre order Aminet 17 for only 11.99

BUSINESS - Misc - DTP - WP

ninet Set 2 consists of approximately

Easy to use index files and search fa ties make accessing it a pleasure. s: Utilities 120Mb 1,000, ents 270Mb 870, Text 40Mb 21 ss 75Mb 170, Pics & Anim 630N Graphics 170Mb 430, Misc 150

AMINET SET 2 4 gigabytes of software in 12,000 archives. Whether you like applic

Less than four years after it's interception, Aminet now holds the equivalent of 7,000 floppy disks.

16C C64 3d Rende









CODE: CD PRICE: £ 9.99

NEW MEETING



Popeye and Son Prehistoric

Birds Birds 1 Birds 2 Back Adder 1, 2, ts'n' Water

SELECTED Images in IFF. SPECIAL VISUAL EDITION. OVER 18















KLONDIKE GOLD SET 1



The Wizard 0f 0z Thunderbirds Thime Cop Thunderbirds Time Cop Toonies 2 Toonies 3 Toonies 3 Toonies 3 Troubes Trab Door Travel 2 Trak Cards Trae Lles Vallejo Vanessa Paradis Vietnam Visions Wiews Wiskins Wiews Wiskins Wiskins Wildiam Wild Now with the Amiga Flash Rom get better performance compared the original classic cdrom disks, speccy 96, CMB Volume 2 and imulators untilimed.

 Better environment to develop pro-grams bnow comes with comple work bench support. Playing games was never so easy.

Work (yes, a every emulator is more han enough for simple text process-

AMIGA EMULATOR

The AMIGA FLASH ROM contains all the latest Emulators for the Amiga

The Ultimate way to use the wealth of software available for the Amiga com-

UAE v0.71 - Here it is fels the latest release of the Useable Amiga Emulator. Turns your Pentium into an Amiga A500.

There are various versions of the emulator included on the CD for PC, Unix and Linux. Sorce code has also been porovided (where pos) and all www page address are listed so you can get the latest version from the net.

SPECCY 97

Games - Theres apx 5,000+ spectrum games included for you to use with the emulators listed below.

KGB Spectrum Emulator - By T. Noergaad. ZXAM v2.0b - By Toni Pomar. ZX-Spectrum Emultor v4.71 - By J st. lair ZX Emulator v1.7 - By P

CBM SENSATIONS

INTER OFFICE

Only £19.99 inc

Games - Theres apx 500+ c64 game included for you to use with the emu

C-DRAGON EMULATOR V1.02 BURGIN - A Dragon or Tandy Co

INTER WO



VALHALLA



CHESS SYSTEM



INTER BASE 2



SABRE TEAM



FEARS

GRX SENSATIONS

5 Sorayama Sorayamahajime Space Speccy 2,3,4,5 &

Speccy Covers 2,3 &4 Spiderman Speed Sseymour Stargate StarTrek 2 StarWars

StarWars Galaxy Star Trek I Star Trek NG Strange Street Fighter II Sunshine



W/S FONTS



PROF. FONTS & CLIPART VOL.1

W/S CLIPART



LEGENDS



4MB £25 £48

16MB £120 £210

8MB £48 £94

16MB £120 £210



RAN



SOUND LIBRARY





ASSASSINS GAMES 2 £17.

18,000 mods of any format (M00, S3M, XM Π, Amiga syynthetics...) all by composers in priority, By Groups, then by Kinds; all stored in uncompressed form, readable under all



SOUND TERIFFIC

OCTAMED 7

WORLD OF CLI-PART PLUS (2CD)

DEVELOPER



3D OBJECTS



AMOS PD 2

• CD033

PROF. PCX CLI-PART VOL.2





SCENE STORM

THE COLOUR



per order



300441 (01702)300441

217 - 219 Hamsi

email:

sales.pdsoft@cableinet.co.uk

Web Page:

Please make checks to CDSOFT or order by credit card / switch & delta Most titles are despatched same day. Vat is INCLUDED on all titles. e&oe

Give us your email for monthly updated catalogue reports.

Office & Retail Outlet open Monday to Saturday 9:30 to 7pm - Tel (01702) 306060 & 306061 - Fax (01702) 300115 Please add 1.00 per title for UK P&P & 2.00 for oversea's Airmail - Order via email & get the most upto date prices. Check our Web pages (updated every day) for special ofers and new releases. Special offers running every day.

> SPECIAL FEATURE CAPTIAL

PUNISHMENT







XTREME RACING DATA £5.99











VITAL LIGHT

688 ATTACK

SUPER SKID

SUPER SKID



JPER SIDMARK











MANAGER 2

SIM CITY

SYNDICATE

SARRE TEAM

















RISE OF THE ROBOTS

IMPACH

493

Service of the servic CRAHAM COOCH

W BID PLAS







WEMBI EY BUG.

G G W/CLASS

G G TEST MATCH









Retains all of the po Retains all of the power of its predecessor, presented via a greatly improved uses interface. The programs workbench 2/3 styling is a pleasure to use, even on older 1.2/1/3 Amigas.



Only £19.99 inc



















169



INTER SPREAD Only £ 9.99 inc



INTER WORD





ON TH BALL













TATICAL ITALIA







EPSON STYLUS 500 PRINTER

INTER TALK Only £9.99 inc

GERMAN 8-16

EARLY ESSEN-TIALS £12.99

Stylus 820



STYLUS 200

Vat & delivery

ESSENTIALS MATHS £12.9





KID PIX











SPELLING 9+

FRENCH 8-16













W RID CLASS WORLD CL









K240 £7.99

WORLD CUP

SOCCER





SCREENBAT 1

SCREENBAT 4 ACTIVE STEREO







Give us a ring if you do not see what you want Some titles are limited and will go out of stock quickly.

ACTION REVIEW PUZZLE

Hugh Poynton baby-sits Vulcan's latest cute 'n' slimy critters..

hen opening the Bograt box, I thought to myself, 'a new scrolling platform game, that'll got news for you. It wasn't unchallenging or relaxing, indeed it was probably more

doubt one of the most deceptively hard arcade puzzle games I have ever played. Trying to work out how to get through the Einstein used to figure out that whole

relativity business

Although it looks like a cute arcade game it is rather more. The baby bograts you guide like the little rodents in the classic,

Oblivious to danger, they just walk into any obstacle waiting for them. The only hint is that they walk left and then right. With this in mind, you can attempt to selectively open strategically placed doors and remove certain obstacles in front of them so as to avoid the

Stupid as they may be, these baby bograts

aren't just an annoying liability, they do serve a purpose. Both babies have special skills. Despite looking cute, the blue baby bograt is actually as hard as nails. If you run into any Fungus creatures, blue bogster will dispatch the rum fungus lad with a blood curdling

Red baby bograt is as hard as marshmallow but is the only one of the three characters who can pick up keys and unlock doors. More importantly, there are large sections of the levels only accessible by the baby bograts so you must plan ahead and get screen requires an entirely different strategy and it really is worth perusing the screen for a couple of minutes first.

If you get to level two and think things are difficult, wait till you get to ten - there are 60 levels in total. A couple of days playing this and you'll be doing pretty accurate Mr Gumby impressions - my heeeaaaaaddddddd huuuuuurrrrtttsss!

you jump up and collect something, be it a heart or an egg, a little daaannngggg noise sounds. Run into a big bunch of eggs or hearts and the game suddenly sounds like its got a drum'n'bass sound track. Your teleport to the next level is always heralded by a little bograt baby making a noise like a cross between a hiccup and a full on chunder. Worse still when the bog babies shuffle their distressed miowww noise.

Graphic-wise the game is well presented and original. It has loads of fun little features that make it stand out from standard scrolling platform games. Hidden about the various



Ub mub bub, bah bbah eeeyyaaaaaaa...(too grief stricken to speak)



This is the Bograt mum - she looks like something I wiped down the side of the sofa the other day



Note the lovely portrait of Auntie Hilda downstairs



these little critters are missing. Answers on a postcard please



This is level two and it took me half an hour to get here. Lucky I never went into brain surgery

levels are springs which shoot you across the screen at supersonic speeds, flames which suddenly flare up and roast you to a crisp and big red blocks that can be shoved into strategic locations to prevent the baby bog rats getting themselves killed (careful where you drop them, its a bit gutting to drop a brick on your little bogsters).

Another bonus is the ridiculous, but hilarious, introduction animation. It shows the two bograt babies being read a fairy tale by their mum. Mommy Bograt is speaking in the most stupid sounding gobledegook heard since Mr Blobby. For example: 'Umum umum, ajurp, urp baya, urp baya'. This cross between burping, grunting and breaking sounding sigh. What the developer was on I don't know, but I want some.

probably be more difficult than completing Ouake. Bograts is well up to Vulcan standards. The game is fun, massively challenging (for a spanner like me) and the concept is pretty original. With so many levels (all no doubt rock hard) to complete, there is little chance you would finish this game within about 6 months. Bograts is a tough, fun and instantly addictive game. Go buy it.

My main criticism of Bograts is that it can

Completing all 60 levels of Bograts would

be just too hard - to the point of being really

annoying. However, do bear in mind that I'm

the bloke who spent the best part of a year

baby bograts through five measly levels I

wanted to head-but something

trying to complete solitaire. I found after my first hour trying to figure out how to guide the



If you've got this far you're brainier than me. Or you spend too long on your computer



From this screen shot Bograts looks simple - don't be fooled

THE LOW-DOWN

PUBLISHER Vulcan Software

CONTACT 01705 670269

HD INSTALLABLE Yes

PRICE £12.99

MACHINE A1200 only

GRAPHICS 80% 85% SOUND PLAYABILITY 90% DIFFICULTY Very Tricky

deceptively tricky little puzzler. Great fun to play unless you're highly strung or prone to loosing your temper pretty easily. Be warned, it isn't just a dumb shoot 'em-up, so you might have to use your noggin for a change

REVIEWED BY HUGH

OVERALL SCORE

ACTION FEATURE NTERVIEW

ack in 1994, a small Portsmouth-based ack in 1994, a small Portsmouth-based software company consisting of Paul Carrington and Lisa Tunnah started out in the, then, fairly prosperous Amiga games market. Two years later, the games market has dwindled as software developers scrap or phase out projects for the Amiga. Vulcan however, are still developing and selling a range of Amiga games that would have been impressive even five years ago. Although only launched two years ago, Vulcan now hold 70% of the Amiga games market; how? I talked to Paul Carrington, the market; how? I talked to Paul Carrington, the man behind Vulcan.

When Team 17 brought out Worms; The Director's Cut this month, it was, so they tell me, their final release for the Amiga (apart from add-on diels and patches). You currently have 10 Amiga titles in development or ready for release. What has prompted this great support when everybody elsess calling it a day?

The main reason is that we are unique in our operations. If we were simply developers who handled titles to our publishers, we would probably be looking at other, more widespread platforms for which to develop. But in our entirely we are developers, publishers, manufacturers, distributors and offer world wide mail order.

Hugh Poynton talks to Paul Carrington, director of Vulcan Software - currently the largest Amiga Software producers - about new games, the future of the Amiga and why his company aren't feeling the 'Amiga pinch'

All these elements combined mean we are

All these elements combined mean we are self sufficient and don't rely on normal commercial routes to sell our products. In a sense we have written our own rules and because of this have never felt the 'Amiga pinch' like other software houses.

One thing to bear in mind is that a lot of Amiga users and games players are still out there, knowing that the Amiga is not represented as much as it used to be (or hardly at all) at wholesale and retail level (especially in the CIK). But this was dictated by market changes.

As the new Amiga hardware (in my opinion) hit the marketplace a bit too late, the damage was already done – developers and publishers clambered for the next boo market and left the Amiga dry.

market and left the Amiga dry.

Vulcan were in a unique position of entering the computer market at the beginning of the Amiga decline and through sheer stubbornness chose to adapt our operating procedures to suit. Right from the beginning we realised there would be a niche left by the evolution and we jumped in it as quickly as we could and sealed the entrance





74 AMIGA ACTION FEATURE





hardware is becoming cheaper and cheaper. Think about it! If the base Amiga machine was say, AGA 2 Mb Chip, 060 acceleration, 16 Mb Ram, 1 Gb hard drive and CD-Rom, development for the machine would be a dream and you would see products emerging that were far superior to the equivalent PC specifications.

Unfortunately it's a chicken and egg scenario. Why should users upgrade when there is no software to make full use of, and why should developers develop for a high spec Amiga when this isn't the mass market of users? Things have got to change. Most of Vulcan's forthcoming releases are

urging, if not begging, users to upgrade. Take JetPilot for example. It works like a dream on an 060 with 6Mb Ram. It's an incredible flight experience, but we still made it work on a bog standard A500.

Now this is clever because the lower end spec users will be encouraged to upgrade to get the full benefits of the title but they have not been excluded altogether.

Another example is Tiny Troops. This works fine on a non AGA Amiga with 1 Mb chip but enormous enhancements are there if you have an AGA with 2 Mb chip.

HellPigs is due early next year. This is a full motion video adventure game with speech on two Amiga CDs, but we are still releasing a 22-disk floppy version without the full motion video and speech.

There are exceptions of course, and some of our titles will need AGA with 6 Mb and only playable from hard drive like Burnout but the overall message is the same, 'it's time to upgrade'.

Why do you think the Amiga seems to attract a loyal fan base in a way that no other

Aesthetics! As every Amiga user knows there are so many options and choices. The current Microsoft slogan makes me chuckle. I think it is 'Where do you want to go today?' Now that sums up the Amiga totally, whereas the answer for the PC should be 'to hell and back'.

Are there any exciting new projects in velopment that you can tell us about the sen't been included in the Future Relation f your web site?

Oh yes – where to start? One we are really excited about is Genetic Species – the closest and fastest Doom clone! have ever seen on the Amiga. Clone is really the wrong word as it surpasses any 3D engine available to date for the Amiga with full screen real time 3D in 1X! nivel perfect rendering at 25 fee.

1X! pixel perfect rendering at 25 fps.

1X! pixel perfect rendering at 25 fps.

1Ym sure this will really blow the minds of any onlooker when released. At present there is intense designing for the enemies' logic and artificial intelligence and the only reason this title will ever fall behind from its release date is because we cap't the testion and date is because we can't stop testing and playing it.

ause the Amiga is n (via the

Yes and no. Talented programmers and game concepts are apparent and rife on all formats. Just because other formats cost more for basic development specification doesn't mean they don't require talent or don't require imaginative concepts

But it is true to say that for future development companies the Amiga is a very good platform to start from due to the costs involved and the case of transferring imagination to code.

The main difference at present with developing for the Amiga and other platforms is that just as much pleasure is gained from coding as playing. After all, the Amiga is a hobbyist's machine and far more accessible and is used as a creative tool rather than a business tool. There will always be incredible talent that stems from around the

How would you account for the great uccess of the Valhalla series? Radical though the inclusion of speech was, it couldn't have been just that which provided

Apart from the digital speech we believe that the Valhalla series is a huge success due to the crossword type of lateral logic that is required for the puzzles along with the humour of the characters that unfolds within the stories. So much so that even after the third instalment, another six titles are in the making to bring the whole adventure up to nine. Valhalla is and always will be an nine. Valhalla is and always will be an acquired taste – you either love or hate it. To date we have found no in between.



How do you'led about the rather unking ords Amiga Power had for Valhalla? I do low of a few other soft Wate companies had been entirely happy about the patment I NAmiga Power.

treatment b) Amiga Power.

Quite inspired at the originality and beliefs in one's own convictions, the best part regarding Amiga Power was that they awarded the Vallhalla titles such ridiculously low review scores like 19% as opposed to 94% - there has never been this diversity in w scores and the fact that the score was low made it more bearable and amusing.

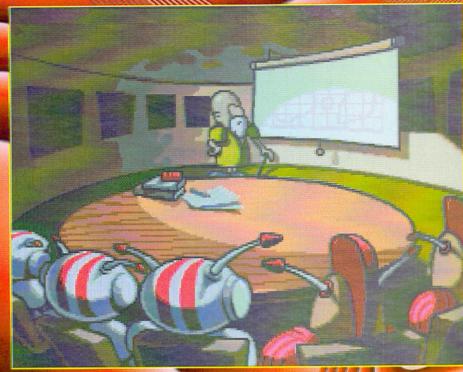
It also gave us a lot of publicity and ventually I believe made Amiga Power look rather silly and isolated. But all that aside, I'm sure they received as much pleasure and excitement at their audacity as we did when we realised that the Vallhalla series sold more copies than their magazine and that the Vallhalla series is still here today!

Do you think you will be able to maintain

the, 'one release a month' target you have set for yourself without sacrificing quality? Yes indeed, maintained and already surpassed. As we are now the biggest Amiga publishers around, more and more excellent titles are winging their way to us for commercial release. This has allowed us to choose the highest quality products for inclusion in our MiniSeries range.

We originally forecast one Amiga title to be released every month but winter saw the release of BogRats, JetPilot, Tiny Troops and Burnout and with Breed2000, Hellpigs and Wasted Dreams slated for early next year, the future release catalogue just gets bigger and bigger.

valities you look for when new game to you? Vulcan epooy urings a new game e e, in the last few months released urful puzzle games such as BogRats and about the most defailed flightsim ever



Tiny Troops

ight out for the Amiga?

ust about the most detailed flight sim? JetPilot is the most detailed flight sim ever JetPilot is the most detailed flight sim ever produced for the Amiga! I don't mean to sound arrogant about this, it's just that I am so proud of Michael Baur's achievement with this title – over two years of development and perfect to the last detail.

Games we look for have to be extremely addictive and rewarding to play; that's our main objective. Basically, if we love playing it and feel fulfilled, surprised, excited and

enthralled, the game stands a good chance of becoming part of the MiniSeries range.

We then look at how well the title is polished graphically and how professional the presentation, although with this area we contribute heavily to shape the title into a top-quality commercial product.

At the end of the day, the only way Amiga users will buy products is if they like them, so it is essential to put everything you have into each and every title to ensure there is a market for the next.

market for the next.





ACTION PREVIEW SPORTS SIM

Hugh Poynton tries his hand at managing Sampdoria



anyk Software are a courageous bunch. It must be to release its new footy management game, Euro League Manager, just as the formidable Championship Manager 2 is set

Euro League Manager differs from other football management games in that, from the start, you are given the choice of four European leagues to choose from. Become Huyanelli Poyntochini and manage Sampdoria in the Italian league, steer Auxerre to victory as Hugh de la Poynton or assume a dour grumpy attitude, chew gum constantly and manage Manchester United. You can also manage your team in a European fantasy league.

The beauty of this feature is that each league you manage a team which is almost like a different game. Your opponents are different and the strategies and tactics you might have relied on before will no longer be as successful.

Manyk has thrown in some great innovations which add to the strength of the game. A talent scout is available, so that if you're on the look out for a fantastic new player, talent scouts can be dispatched to far flung parts of the globe. Transfer deals are made more interesting in Euro Manager - Manyk have included an option where players can be transferred using part exchange deals so your wheeling and dealing can be made more efficient and

In many ways this is a business game as well as being a football game. Your financial wizardry counts for as much as your football management skills. Invest the club's financial resources wisely and a new stadium could be built allowing more people in to watch the matches. Plough the proceeds from this into discovering successful players and your team will be winging its way to success and your stadium will start to resemble Wembley.

Unfortunately, Manyk have had a tough time trying to get permission to use the names of players and cup competitions for the game (I always these names were public domain, but unfortunately this isn't the case). Hopefully though, they will have got over this by the time the full version is available. However, Manyk have promised that if they can't use the players and cup names, they will include an editor in the finished game so real player names can be

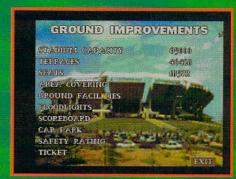
Euro League Manager looks to be shaping up to be a pretty good game and a useful addition to any management buffs footy collection - especially as you are not limited to managing English Premier League clubs. From what I've seen, Euro League looks like a fresh and original take on a well used idea. At the time of writing, the game was scheduled for release towards the end of November, we'll give you further details as we get them.

	1	Fontana	Gontkeepen
D. martin	PALS:	Hiberga.	Conficence
-	2	Montanari	Berender
2 2	3	Annoni	December
3	4	Brioschi	Defender
4		Mangone	Derender
A STREET, SQUARE, SQUA		Ricci	Defender
		Sala	Decender
6 (5	Andrisani	Marletaer /
7	6	Planighetti	FüdFielder
	7	Rbel-Kavier	Flidrielder
0	8	Pedone	thatletter
0		Parente	Flidfielder
10	DAY SE	Gerson	Elignielder
000000		Ingensson	ElidPleider
11	9	Protti	ATTRICKET
12	18	Duscrero	fit facker
100	11	Andersson	AT Thicker
	12	Gautieri	rittacker
		STATE OF THE PARTY OF	

The Hugh Poynton all-star 11



Its like watching The Premiership down the



Lovely stadium, looks like the burger joint from the Flintstones.

LIAGE INTERNATIONA

36 Dye Street Garnerville, NY 10923

914786-1711 Voice - 914-786-1708 Fax

Email: liage@qed.net

Homepage: http://www.qed.net/liageinc/



NEW!!

IN-TO-THE NET CD PLUS FREE OUT OF THE NET CD

EVERYTHING YOU NEED TO GET ON LINE **SPECIAL \$18.95**

AEGIS ANIMATOR

Includes Aegis Images Paint System, put your ideas in motion. This program allows you to create different shapes and animate them. Over 4,000 colors. \$3.95

AMIGA TRIPLE ACTION

1. AMIGA TEXTCRAFT PLUS 2. MONEY MENTOR 3. AMIGA PAGE SETTER A LIAGE KILLER PRICE OF \$5.99

BREATHLESS

A1200/4000

Experience 360 degree first person firepower in BREATHLESS. 3D Raytraced graphics. 96% Amiga Format rating. This game has taken the Amiga where no Amiga has gone before. Hold your breath, here we go. With FREE COPY OF

CARL LEWIS CHALLENGE

A LIAGE SPECIAL AT \$31.99

WORLD GOLF

Challenge 5 of the world's most famous courses. 1-4 players. Complete 18 hole courses. Super smooth 360 degree scrolling. 5 skill levels, 64 computer opponents. Practice mode, 18, 36 or 72 hole tournaments. Skins game-play for money. Player database fo option. I

SPECIAL I

Option. Hard drive installable. SPECIAL LIAGE PRICE \$12.95 CD ROMS AGA EXPERIENCE 2 \$19.00 ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
CD ROMS AGA EXPERIENCE 2 \$19.00 ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
AGA EXPERIENCE 2 \$19.00 ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
AGA EXPERIENCE 2 \$19.00 ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
ANIMATIONS W/S \$21.95 AMOS PD CD \$19.95 AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
AMERICAN HERT. DICTIONARY \$5.00 AMIGA CD SENSATIONS \$5.99
AMIGA CD SENSATIONS \$5.99
CARLOS DEVENT OPER VERY 1.1 \$10.00
AMIGA DEVELOPER VER. 1.1 \$19.99
AMIGA TOOLS 2 \$5.00
AMINET SETS 1 & 2 Each \$29.95
AMINET SET #3 \$35.95
ALL 3 AMINET SETS & Free Gift \$74.95
AMINET #3
AMINET #8, 9, 10, 11 \$17.95 \$10.00
AMINET #12 \$13.95
AMINET #13 with FREE BCI CD \$15.95
ARTWORK CD \$12.00
ASSASSINS 1 AMINET #15 \$6.00
ASSASSINS 2 \$17.95 \$21.00
CD PD #1, 2, 3 Each. (all 3 \$10) \$4.00
CHAOS IN ANDROMEDIA \$1.00
CLIP ART (WEIRD SCIENCE) \$9.00
EUROSCENE #1 AMINET #16 \$2.00
EUROSCENE #2 \$17.95 \$11.00
FONTS (WEIRD SCIENCE) \$9.00
FRACTAL UNIVERSE \$6.00
FRESH FISH #8, 9 \$10.00
FUTURE SHOCK \$3.00
GFX SENSATIONS \$9.95
GOLDFISH VOL #2 \$10.00
GOLDFISH VOL #3 \$15.95
GROLIERS ENCYCLOPEDIA \$10.00
HOTTEST 6 \$8.00
MOVIE MAKER SERIES SPL FX VI \$49.95
LIGHT ROM #3 3CD SET \$29.95
MAGIC ILLUSIONS \$14.95
MAGIC PUBLISHER W/FREE DISK \$34.95
MEETING PEARLS #1, 2, 3 Each. \$10.00
MULTIMEDIA TOOLKIT 2 \$12.95
MUSIC MODS & SOUND EFFECTS \$10.00

CD ROMS

NETWORK 6 CD#	\$13.95
OCTAMED 6	\$29.95
OCTAMED SOUND STUDIO	\$29.95
POWER PINBALL	\$2.00
RYDER CUP GOLF	\$5.00
SPECCY CD	\$12.95
SUPER AUTOS '96	\$15.55
LSD/17 BIT COMP #1	\$17.95
LSD/17 BIT COMP #2	\$15.00
17 BIT COLLECTION 2 CD	\$14.95
17 BIT CONTINUATION	\$14.95
17 BIT PHASE 4	\$17.95
17 BIT 5th DIMENSION	\$17.95
UFO ENCOUNTERS	\$19.95
UTILITIES EXPERIENCE #1	\$13.95
1078 WEIRD TEXTURES	\$2.00
WRATH OF THE DEMON	\$12.00
3D CD IMAGES	\$12.00
3D CD OBJECTS	\$16.95

AMICA SOFTWARE

AMIGA SOFTWARE	
ALIEN BREED 3D AGA	\$14.95
ALIEN BREED 3D Killing Grounds	\$24.95
ARCADE HITS	\$3.95
BARBARIAN II	\$2.95
BODY BLOWS GALACTICA	\$2.95
BOPPIN	\$1.00
BREATHLESS (AGA)	\$31.95
BUMPER QUAD PACK (4 games)	\$5.95
CIVILIZATION	\$21.95
CLASSIC ARCADIA	\$3.99
COUNT DUCKULA 1, 2	\$3.99
DALEK ATTACK	\$3.99
DEATH MASK	\$6.99
ENIGMA	\$21.95
EXILE A500/A1200	\$8.00
FIRE FORCE	\$3.95
FORMULA 1 MASTERS	\$19.95
FUTURE CLASSICS	\$3.95
GALACTIC WARRIOR RATS	\$3.95
GOD FATHER	\$3.95
GRAND PRIX	\$13.95
HIGH STEEL	\$3.95
INTERNATIONAL GOLF	\$3.95
KICK OFF '96 AGA	\$49.99
KIDS RULE OK (multi pack)	\$3.95
KILLING CLOUD	\$2.99
LORD OF THE REALM	\$23.95
MATH BLASTER PLUS	\$4.95
MONEY MENTOR	\$4.95
NICKY BOOM	\$1.95
ORK!	\$1.95
PAGE SETTER	\$8.00
PINBALL FANTASIES AGA	\$25.95
PIRACY	\$2.95
PLAY DAYS	\$22.95
PRIME MOVER	\$3.95
RED ZONE	\$3.95
RUFF N TUMBLE	\$24.95
SCI-FI COLLECTION	\$3.95
SHAQ-FU	\$3.95
SPERIS LEGACY AGA	\$6.95
SUBURBAN COMMANDO	\$3.95
SUBWAR 2050 AGA	\$4.95
SUPER CARS	\$2.95
TEXT CRAFT PLUS	\$3.00
THOMAS COLLECTION 3 GAME	\$4.95
THOMAS PINBALL	\$4.95
VIRTUAL KARTING AGA	\$10.95
WATCH TOWER AGA	\$14.95
WORMS	\$23.95
*NEW MEETING PEARLS 4	\$12.95
	100 100

THIS SOUNDS TERRIFIC!

Weird Science Sounds Terrific Double CD Set #1

Weird Science Sounds Terrific Double CD Set #2

The second in a series dedicated to Music & Sounds. Contains thousands of files for both Amiga and PC.

BOTH FOR \$18.95

BUMPER QUAD PACK

4 Games for 1 Low Price!

1. JAWS (Better than the movie)

2. CROSSBOW (Adventure game)

3. GRAND PRIX (Worlds most gruelling event)

4. HIGH STEEL (Terrific new game)

ALL 4 FOR \$4.99

THE SCI-FI COLLECTION

3 Space Age Smashes, 1 Low Price 1. GALACTIC WARRIOR ANTS 2. SUBURBAN COMMANDO 3. DALEK ATTACK

LIAGE EARTH PRICE \$5.99 all 3

AMINET SET 1

Consists of over 4 Gigabytes in 12,500 archives.

AMINET SET 2

Offers everything added after Aminet #2. Plus 300 Electronic Books. 4 Gigabytes 12,500 archives.

AMINET SET 3

The Worlds largest Amiga Software Collection. Includes: Free Imagine 4.0, XIPAINT, OCTAMED 5 & more games.

\$29.95 EACH SET, ANY 2 FOR \$54.95, ALL 3 for \$73.95

CLASSIC ARCADIA A500/2000

100% Arcade Action. Including full stereo Music & Sound Effects. Eight games in all. Two versions of four Classics.

> 1. MUNCHER 2. INVASION

3. REBOUND 4. GALAXY

LIAGE PRICED AT \$7.99

LIAGE EXCLUSIVE 10 PACK #1

1. CARL LEWIS CHALLENGE 2. ORK! 3. PRIME MOVER 4. RED ZONE 5. WRATH OF THE DEMON 6. EYE OF THE EAGLE 7. CD 32 SPORTS FOOTBALL 8. EUROSCENE 9. DEATH MASK 10. SUBURBAN COMMANDO

> 3D CD OBJECTS **3D CD IMAGES** \$11.99 Each

LIAGE EXCLUSIVE PRICE \$7.99

University

We all know how films are produced and books are written, the myriad of processes and stages that need to be undertaken to arrive at the finished product. How many people know how games are written? Because such enterprises lack the glamour of a novel or a film, the workings of developer are to most of us like the inner workings of a car - too complicated and mysterious to consider. However, there are big bucks in the software industry. Programmers such as Andy Davidson earn thousands of pounds for spin-offs of pet projects they undertook in their spare time.

Christopher Page is currently in his second year at Manchester University. Although using PCs and Macs for his Computer Science course, the Amiga is his machine of choice. He is currently working on Explorer 2260, a space simulation/trading game in a similar vein to Elite but with far superior graphics, wider playing area and more ships. I asked him about the trials and tribulations of creating and marketing a game from scratch.

The specs for Explorer 2260 look very detailed and complicated. Is the amount of data required for a project such as this (with thousands of planets, hundreds of races and dozens of different ships) a great deal more than for, say a racing game or a beat 'em up?

Creating a game like Explorer 2260 is a very difficult thing to do: in a racing game all you really have to be concerned with is ensuring that the screen updates fast enough, the cars 'feel' right and the enemies react/act in a believable way. In a beat 'em up your job is made simpler by the fact that, while you're having to move what are often quite large blocks of GFX around, you don't need to have routines generating the background as the characters move around: backgrounds are usually just large pictures.

I do not say that these are trivial tasks but they are considerably simpler than some of the things which large scale simulation games must

In Explorer 2260 there are many things which I must ensure are updated constantly (planet/ship positions, rotations and velocities, the dynamic universe model and the

Interstellar Information Networks (IIN)) along with the necessity of fast screen updates, realtime calculation of masses of data and a myriad other tasks.

Such complexity requires large amounts of code which must be optimised to run at an x acceptable speed. Take as an example the IIN (the piece I have done the most work on so far): The IIN is basically a futuristic web browser which provides the player with an interface to a massive amount of constantly changing data from around the game uni-

The actual code to interact with the IIN is really just an adaptation of standard web browser code. It's what goes on underneath that is so complex: each time the user logs onto the IIN and moves between pages and sites the game must generate the required site from

a stored set of possible pages and words plus some measure of response to the actions of the player (ie: if the player has hired someone to work as a prospector there should be messages from the prospector occasionally appearing in the player's mail to the effect that one area is rich or poor in resources and so

It is also necessary to adapt the contents of the IIN according to the dynamic universe model and the player's position and social/ legal standing. Add to this the required graphics manipulations and the code begins to get longer and longer!

As to how much data is required: well, in racing games and beat 'em ups most of the data is in the form of graphics and sounds. Depending on the size and quality of the game the amount required can be fairly high. In a game like Explorer 2260 you have to store the graphics for the static screens as well as cockpit graphics, large amounts of sound data (I intend to have lots of sampled speech in there), as well as large and detailed maps of the galaxy and planets, 3D models for the ships, buildings, stations and weapons and masses of text for the user interface.

Why do you like writing for the Amiga? Do you find it much friendlier than other formats? Does the format enable more people access to games writing equipment at a lower price?

I write for the Amiga for three reasons: firstly it is the most friendly environment I have worked on, and I have used Macs, PCs, Suns (Unix based systems). Secondly the Amiga hardware is the most elegant in the world. It may not have the raw power of a Pentium PC but, by virtue of the DMA custom chip design, many of the tasks

> which would be impossible on the PC can be done with a few commands on the Amiga.

Finally, the PC market is so full that it is risking collapse under the number of near identical releases. This makes it nearly impossible for a single coder to have his work noticed, appreciated and criticised. Is it



One of the Navigation computer screens in its most basic form. Chris tells us that the new version should look more like the IIN page. The large black area will be a stellar display allowing the player to select the required sytem and jumpgate destination

any wonder that Amiga coders are usually a lot more careful when releasing games to ensure that they are debugged and polished? They have a lot more feedback from the public, in one form or another, than lone PC coders who have to struggle to get their work noticed.

I am going to be very careful answering your question about the price: Yes, the Amiga does give a lower price entry point for coders BUT the price of a system suited for programming can be quite high: I am using an A1220 with a Viper030 40MHz board, 33MHz 68882, 8 Mb fast ram (maybe 16 in the near future). 360Mb HD and a PC, ATAPI compatible, quad speed CD Drive connected through the internal IDE interface. All this

makes for quite a price....

 Next month Chris will explain the 10-step process involved in designing and creating a computer game

Châ

Hugh Poynton talks to young hopeful Chris Page about the pleasures and pitfalls of developing a game

> Screen shots are limited at the oment because ame is in an early stage of elopment. This is the INN, Explorer's interstellar version of the WWW - a useful device for finding out important information

IIN LOCAL NODE INDEX

LOCAL NODE LINKS

SYSTEM NODE LINKS

IIN SYSTEM INFORM REMOTE RETAIL LIN REMOTE NODE LINKS

Guildhall Go

Software publisher Guildhall has announced it is to supplement its range of games with four old faithfuls from Microprose; Special Forces, Mission Impossible, UFO and Colonization. Six more titles will follow shortly including Fields of Glory, F19, F117A, Starlord, Dogfight and B17. Here's a quick look at the first four games in the budget range.

Colonization

Games genius Sid Meier's follow up to Civilization focuses on the exploration and development of the New World. Covering the period of colonial development from the 1500s to the mid 19th Century, it challenges the player to become the most dominant force in the newly discovered territories.

You have the choice of playing one of four colonial nationalities, French, British, Dutch or Spanish. Each has its own particular advantages which fairly accurately reflect the



way in which these nationalities operated in the New World. For instance, when it comes to trade, the French have an advantage because they traditionally enjoyed more cordial relations with the native people.

Throughout the course of the game you

Throughout the course of the game you have to decide whether to follow history and do the traditional Western European thing of killing all indigenous populations and destroying their culture, or exist in peace with the native inhabitants. Basically a fascinating game with a bit of a social conscience.



THE LOW-DOWN

PUBLISHER Guildhall Leisure
DEVELOPER Sid Meier
HD INSTALLABLE Yes
PRICE £14.99
SUPPORTS Any 1Mb Amiga

GRAPHICS	75%
SOUND	75%
PLAYABILITY	88%

Tricky

OVERALL SCORE

DIFFICULTY

82%

THE LOW-DOWN

PUBLISHER Guildhall Leisure
DEVELOPER Microprose
HD INSTALLABLE Yes
PRICE £9.99
SUPPORTS A1200 & A4000

GRAPHICS	82%	
SOUND	80%	
PLAYABILITY	76%	
DIFFICULTY	Medium	

OVERALL SCORE

79%

Impossible Mission 2025

A mixture of arcade and puzzle action in which you choose to play as Ram the Robot (no kidding), Tasha the Russian Gymnast or Felix Fly (who sounds rather like a character in an Issac Hayes movie). The aim of the game is simple enough: run about a huge factory stuffed with the evil Doctor Atombender's robots collecting powerups and destroying as many droids as possible. To make things even trickier you've got to accomplish your mission in a



set time or in true Bondesque fashion, the evil doctor will launch a huge missile which will destroy the world.

Impossible Mission 2025, although requiring considerably less brain power than UFO or Colonization, is nevertheless still a pretty enjoyable and diverting beat 'em up. A good game to play if you only want to spend a few minutes mucking about on the computer rather than immersing yourself in three hours of complex strategy.



We take a look at the first four Guildhall/Microprose re-releases

THE LOW-DOWN

PUBLISHER Guildhall Leisure **DEVELOPER** Microprose **HD INSTALLABLE** Yes **PRICE** £14.99 **SUPPORTS** All Amigas

GRAPHICS	78%
SOUND	77%
PLAYABILITY	86%
DIFFICULTY	Tricky

SCORE OVERALL

UFO

Have you ever seen the excellent 70s Gerry Anderson UFO telly series?. The programme was hilarious. The commander of earth's defences looked like an extra skinny and wet Andy Warhol. The primary line of defence against flying saucers was a Moon Base had purple widows peaks. And everybody smoked. All the time. Even when engaged in a life or death space battle with a flying saucer you could guarantee that the pilot of the interceptor would be chugging

away like a steam train.

Microprose's UFO shares its name and story line with the telly programme. Your

mysterious aliens. After being given an initial budget of a few million dollars, a troop ship, a couple of interceptors and a freeing the earth from the threat of alien

However, it's not just a matter of blasting aliens. Like everything these days your force must also function efficiently as a business. Twenty countries are funding the alien busters (X-Com) and success is critical in deciding what future funding you receive. If you mess things up enough governments will lose faith in you, save their pennies rather than donate funds and even sign pacts with the aliens. A fascinating and unusual strategy game.







Special Forces

The last of the initial four budget titles that Guildhall is releasing is Special Forces, a strategy/shoot 'em up game in which you command a detachment of specialist troops. You can choose from a variety of missions ranging from rescuing prisoners of war and blowing up Scuds, to the rather morally dubious assassinations.

You choose everything from the location of the drop zone to the tactical formations of your troops and the weapons and explosives that each carries. All team members start off under computer control but each one can be brought under direct



control by pressing the corresponding key. However, Special Forces is far from being a

the enemy soldiers had level (where the enemy soldiers had the fight) and that even on rookie skill level (where the enemy soldiers had the fighting ability of Mr Blobby) my elite troops didn't last long. One major let down is the fact that, unsurprisingly for a four year old game, the sound effects are fairly poor. The gunshots for instance sound like heavy calibre pea shooters. Despite this flaw Special Forces is fun, and cerebral enough to keep you occupied for a while.



THE LOW-DOWN **PUBLISHER** Microprose **DEVELOPER** Sleepless Knights HD INSTALLABLE Yes **PRICE** £9.99 SUPPORTS All Amigas GRAPHICS 70% OUND 60% **PLAYABILITY** 75%

ERALL

DIFFICULTY

All in all the re-released Microprose titles are well worth getting hold of for the money. Colonization, although bearing a bit of a resemblance to Civilization offers a very engaging game based around one of the most interesting periods in human history, the discovery and exploitation of the New World. UFO is a complex and engagingly original strategy game that will definitely provide value for money. These two games are available for £14.99 and I would recommend them to anybody. Special Forces and Impossible Mission 2025 are a bit ropier and not quite up to the standard of Colonization or Mission Impossible. However this is reflected in the price, and at £9.99 both are pretty good games for the money.

Medium

We stock over 6500 QUALITY PD & SHAREWARE

How to order

To order any disk just write the disk title and the disk code, EG U01 Against. Some titles have a number in (). This means the title come on (x) number of disks. To order PACK just write down the pack TITLE name.

ALL DISKS ARE COMPATIBLE WITH ALL AMIGAS UNLESS STATED
AGA Disk means for A1200/A4000 only

ALL OUR PD DISKS ARE

OVERSEAS POST & PACKAGE RATE (Europe add 25p per disk for P&P) (Worldwide add 50p per disk P&P)

PLEASE SEND YOUR ORDER TO EITHER OF THESE DISTRIBUTORS YOUR ORDER WILL BE SAME DAY DESPATCH VIA FIRST CLASS POST

SOFTWARE 2000 Dept (AC02) 8 FALCON WILNECOTE TAMWORTH **B77 5DN** TEL/FAX: 01827 287377

SOFTWARE 2000 Dept (AC02) 9 WILLS STREET LOZELLS BIRMINGHAM **B19 1PP** TEL: 0374 678068

TEL OR FAX: 01827 287377

SOFTWARE2000

mouse mat postage & package, offer only available d 1 Mouse Mat per order exclude any other offer)

FREE disk if Mouse Mat Not Required

MUSIC

M001 BEASTY BOYS - We Want Some Pussy songs
M002 MICHAEL JACKSON - Song BAD
M003 DO THE BARTMAN
M005 100 C64 TUNES (not A1200)
M017 GUNS & ROSES - YOU'RE CRAZY
M017 GUNS & ROSES - YOU'RE CRAZY
M018 MONEY FOR NOTHING - DIRE STRAITS HIT SONG
M027 BELUES HOUSE (2 disks)
M028 BETTY BOO (2) needs 2 drives (brilliant)
M031 BETTY BOO (2) needs 2 drives (brilliant)
M038 GOT PETPER (2D)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (3) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)
M038 GOT BETTY BOO (4) needs 2 drives (brilliant)

M072 MADONNA: Hanky Panky Song
M084 C68 (ADMES MUSIC
M115 MAHONEY & KAKTUS 2 - 40 tunes compilation
M115 MAHONEY & KAKTUS 2 - 40 tunes compilation
M125 ADMS ARMITY
M125 DIFFAUNT: Think Work Alone Now
M125 DIFFAUNT: THINK WORK ALONE
M125 DIFFAUNT: THINK MATION
M173 JANET JACKSON - RHYTHM NATION
M173 JANET JACKSON - RHYTHM NATION
M173 JANET JACKSON (SMOOT Criminal)
M184 MADONNA (Rescue Me)
M185 MICHAEL JACKSON (SMOOT Criminal)
M186 MICHAEL JACKSON (SMOOT CRIMINAL
M186 MICHAEL MATION (SMOOT CRIMINAL
M186 MICHAEL MICHAEL MICHAEL MICHAEL
M187 MICHAEL MICHAEL MICHAEL MICHAEL MICHAEL
M187 MICHAEL MICHAEL MICHAEL MICHAEL MICHAEL
M187 MICHAEL MICHAEL MICHAEL MICHAEL MICHAEL
M187 MICHAEL MICHAEL MICHAEL MICHAEL MICHAEL MICHAEL
M187 MICHAEL MICHAEL

with Cannon printers U757 150+ PRINTER DRIVER largest collection

VIDEO TITLERS/TOOLS

loads of features
WEDDING VIDEO ANIM (2 disks) Requires D.Paint

Utilities

D.LOCKS prochet your disk & Flees
ULTRAPANT SUFF paint A 30 model programe
CAN DO programming language
DANKSTAR PAS SUFF paint A 30 model programe
CAN DO programming language
DANKSTAR PAS SUFF paint A 30 model programe
DANKSTAR PAS SUFF paint A 30 model programe
NORTHC combitted of created disk magazine
NORTHC CANDED CONTROL OF CONTROL
NORTHC COMBITTED CONTROL
NORTHC COMBITTED
COMBIT

US21 SPECTRA PAINT III Viewy good paint packages
US30 SCEMENY CONSTRUCTION NOT fitseld, recommend
US36 ASSASSIN BOOT BLOCK over 50 bootholds (protector
US35 CROSSWORD CREATOR (not WEB) crossword maker
US36 LOOK ROOKS (US36 CROSSWORD CREATOR) (not WEB) crossword maker
US36 LOOK ROOKS (US36 CROSSWORD CREATOR)
US36 LOOK ROOKS (US36 CROSSWORD CREATOR)
US36 LOOK ROOKS (US36 CROSSWORD CREATOR)
US37 LOOKS (US36 CROSSWORD CREATOR CREA US21 SPECTRA PAINT III Very good paint packages
US03 SECRERY CONSTURITOR NT fractal -recommend
US03 SECRERY CONSTURITOR NT fractal -recommend
US05 CONSTURING CONSTURING THE US05 CONSTURING CONSTURIN

LIGO PRINT A CARD include many ready made
URSO PRINT PA I COT of printing stiff
URSO DISK PRINT VIA for of printing stiff
URSO DISK PRINT VIA for of printing stiff
URSO DISK PRINT VIA OF OF PRINTING AND VIA OF PRINTING AND VIA

Special offer any 101 games pack 1, 2 or 3 for only £7 when ordered with 10 or more disks. Valid only with this token. This offer cannot be used

A super collection of the very best boards games ever released include monopoly,scrabble,chess, checker ect & many more. HIGHLY RECOMMEND COMPATIBLE WITH ALL AMIGA.

5 disk set only £4.99



COMPATIBLES WITH ALL AMIGA

Printer Pack 5 disk pack with all the latest printing programs specially designed for printing out high quality documents, text 6 pictures et cand it is even about to print out A5 Booklets (very handy). Easy to use. A must for any Amiga owner with printer.

er fast arcade. form games UNTER on the C64

101 Game 74 The very latest 101 games pack 3, highly some 90 % all new 101 games collection, All games are select from an very easy to use menue

UNCE 2 player futuristic breakout
1 TO HELL brillant car racing
RTOM CAT New vertical stroot em up.
FU CHARLIES mix with platform brill.
4 latest vertical scroll shoot em up
ASSTER very good quiz programe
ATION games base on BTAR WAR qa
BASE 12 (20) Brill like MANUEV Not 4.1. R very good quitz programe garmer base on not 73 R WAR games 13 (20) Bril like MONKEY VIS.AND 13 (20) Bril like MONKEY VIS.AND 15 (20) Bril like V

It grahic good MIND SHADOW clone ing 3D graphic like IGO CALLER - Street lighter II D GAMES collection shooting games ris sclion shooting games, solventure ERACE-V. Goodhorse racing games icliniAL with 80 level SH execution 18 level SH execution 18 level SH execution 18 level SH execution 18 level Child SH execution 18 level SH execution 18 level SH execution 18 level 18 level SH execution 18 level G672 SCHNEBITZ Commercial quality puzzle game G875 DELEXE GALA v2.3(new) add new feature & bouns gamme + 2 player RECOMMEND. get it now G676 THE KRILLIAN INCENDENT like ELITEZ/Epic G878 QUANTUM-Mizz colect & escape type games G879 RAG TO RICHES - like MONOPLY.



101 game Only £9.99

GAME HINTS & CHEATS II

Pay your favourine game for age? but can't get to the end of level or game? Having problem with some games? 5 disk pack with 1000s of games cheathfulpilevel code action replay poke etc., should help you finish many games—suitable for all Amigas only \$4.95.
Update & release on 28 July '95

ble for any Amiga. 5 disk pack only C4.95

19 BINGSAURS beech you all about Dinasaour

20 WORLD DATABASE require (2-meg)

21 STORY LAND interact puzze games reg
22 TALKING COLOURING BOOK talking poaint tril

23 TALKING COLOURING BOOK talking poaint tril

24 TALKING COLOURING BOOK talking poaint tril

25 GCKABBLE require 2-dalpsyr. brilliant word

25 GCKABBLE require 2-dalpsyr. brilliant word

27 GWALLD very colourful large carborn game

30 EVOLUTION breed your own hybrid

31 OTEST = 10 GAMASE gack 1 excellent

35 CHESS HELPER helpfassch how to play

56 SCKESS HELPER helpfassch how to play

56 ABSC TUDOR learn about Amag basic Prog

EDUCATION & 21 GAMES PACK

EGIS EASIC TUDOR learn about hongs bear prog
EDUCATION & 21 GAMES PACK
Collection of the very best of education programs and
from on all Amigo) & disks pack only t2.50
Collection of the very best of education programs and
from on all Amigo) & disks pack only t2.50
Complete the collection of the c

E100 LITTLE TRAVELER Information on world wide
E101 WORLD DECGRAPHY world with map & text.
E102 DISSCOVERY OF THE ATOM, subtrail on the Atom (2D)
E103 DISSCOVERY OF THE ATOM, subtrail on the Atom (2D)
E107 TRUMPTY FIREWORK ALPHABET very entertening
way to teach your child the ALPHABET were intertening
way to teach your child the ALPHABET were reterring
way to teach your child the ALPHABET were reterred in
E105 MR MR DI CNIMPC (2D) marry event to complete
E110 CHILT TO DATABASE (2D) Info on serify TV series
E112 HOW TO DEVELOPE PHOTO 2 (2) delevely your own.
E112 HOW THE EARTH BEGAN-theory how the BIG BANG
explode and create all the star & gollaxy
enclosed and create all the star & gollaxy
E112 DINO WAR Club or dinusarys
E112 JUNION MATH Guest bensitys
E112 JUNION MATH Guest bensitys
E112 JUNION MATH Guest bensitys
E112 JUNION BATH Great bensitys
E112 WORLD FACTORY Brilliant, teach kild words

KID DISKS 1,2,3,4,5

KID DISKS 1,2,3,4,5

Excellent collection of education programs, ideal for teaching kids various subjects while retaining the fun & game element. 5 disks only £4,99 or order separately for only 99p per disk. Order Code KID DISK & No. 1-5

Excellent collection of education programs, uses tor teaching kids various subjects while retaining the fundation teaching kids various subjects while retaining the fundation of the collection of the collection







All spectrum pack are compatible Only £29.99 +£2.50 (p&p)

45 C64 GAMES .. £3.99

100 C64 GAMES..£6.99 FRODO 64 .. £1.99 200 C64 GAMES..£13.99 MAGIC 64 ..£1.99

400 MEGA C64 GAMES PACK...£19.99

arcade cames ii

Brand new arcade games pack 3, This pack in clude a new collection of the best arcade disk set only £4.99 games, just like pack 2 HIGHLY RECOMEND



BOARDS GAMES 3 The very latest Boards games pack 3, This pack contain 23 all new boards games, Must for all board games fan RUN ON ALL ASTGA



AGA A1200 & A4000 ONLY

THIS LISTING ARE FOR USE WITH AGA AMIGA

AGA091 A1200 FIX DISK 2 COLLETCION 2 AGA094 RELOCKIT V1.4a latest. run A500 SOFTWARE AGA306 A1200 FIX DISK VOL 3 (new july 95) All disk above are design to make any old A500-A600 Amiga programs/games etc to run on your A1200/A4000 MUST FOR ALL AGA AMIGA OWNER. RECOMMEND

AGA12 SUPER LEAGUE 3 - steins immorphy symmetry of the AGA143 SEPAK & SPELL - educational software for kid AGA143 SIG TOPS (18 + only)kfMMmm AGA148 SELGO LANO-brillant platform games AGA150 AGA169 ELANO-brillant platform games AGA150 GGER TRZ very playable 256 colour length AGA150 GER TRZ very playable 256 colour length AGA150 GER TRZ very playable 256 colour length AGA150 AGA150 AGA160 HID LENGTH AGA160 LIGHT LENGTH AGA160 LIGHT LENGTH AGA160 LIGHT LENGTH AGA170 LIGHT LENGTH AGA170 LIGHT LENGTH AGA170 AGA170 LIGHT LENGTH AGA170 AG

good demo the month d STREET

n on all Amiga

AGA413 BIG GIRLS 11/4/2
AGA414 GIRLS (2)
AGA415 NIKY TAYLOR (2)
AGA415 NIKY TAYLOR (2)
AGA415 NIKY TAYLOR (2)
AGA415 FEMALE BODY BUILDER (3)
AGA418 FEMALE BODY BUILDER (3)
AGA419 EXCELLENT CARD GAMES 3 latest
AGA420 POKER 8 BLACK JACK DELUXE (3)MMEG
AGA421 COLUM WB make your WB more colourful
AGA422 TRIOGE MACER Demo on the Amiga.
AGA423 DRICAN WALKER (2) Demos
AGA423 DRICAN WALKER (2) Demos
AGA425 ORIGIN 2 (2 DISK), Amazing
RE SOFTWARE FOR YOUR AMIGA

SOFTWARE 2000 DOUBLE CD CONTAINS



This is the Big one! Nearly 2000 original disks from the SOFTWARE 2000 library included on a Double CD set. For title list just take a look at this Doubles advert for examle of titles & packs which can be build on this CD. No fursky dip or unknown software. Full description on every diskshiftes. Very easy to use menu system on both CDs. This unique menu system lets you explore the contents of both CDs without disc swapping. Excellent. See below.

EXAMPLE OF DISKS CAN BE FOUND ON THE DOUBLE CD SET

294 - VARIOUS UTILITIES DISKS 118 - EDUCATION DISK

252 - ANIMATION DISK.

133 - DEMOS
151 - AGA DISKS
225 - MUSIC DISKS
92 - TOP SAMPLE AND FX DISKS
18+ - DEMOS (Adults only)
402 + VARIOUS GAMES DISKS - with an estimate of around 1000 + Amilga games
50 LATEST DISKS OF MAGIC WB '7 BACKDROP. Version for all Amilgas also includes
100s of IMAGINE OBJ, 500s AMIGA FONTS, 100s QUALITY B&W & COLOUR CLIP ART, & MUCH TOO MANY TO LIST.

ALSO INCLUDED ON CDs ARE

OVER 1000 **NEW Spectrum Games** (Play direct from CD)



AROUND 700 -1000 NEW C64 Games files (FMILATOR INCLIDED)

Over 600Mb per CD

Menu compatible with all Amigas

No duplicate of data Very easy to use Menu

RRP C 34 99 NEW PRICE

ONLY £29,99 + 70p for P&P

Varrious

To order any pack below just write the pack name & if more than one pack available please state eg: CGfont pack3 to order CG font pack no:3 ect



Mono clip art pack 1,2,3,4,or 5 colour clip-art pack 1,2,3,4or 5 (please state pack require 1-5)

Fonts pack

WorkBench font pack 1..(5 disk full of fonts) WorkBench font pack 2..(5 disk full of fonts) Large Colour & logo type font pack 1 (5 disk) Large Colour & logo type font pack 2 (5 disk)

CG-FONTS
These high quality fonts pack scalable & are compatable with all version of D.T.P. wordsworth, Page-stream, WB3, ProPage 2, Finalwriter, ect (5 disk per pack please state packs reqire)

3D Object
Imagines object pack 1 or 2 (5disk per pack) Imagines true 3d font pack 1 (5 disk)

Caligari object or true 3D fonts (state) (5 disk each)

Light Wave object pack 1 or 2 (5 disk per pack)

Light Wave true 3D fonts (5 disks)

Real 3D or true 3D fonts Obect (state) 5 disk per pack) All pack in these box come on 5 disks & cost £4.99. Per pack. All pack are compatable with all amiga

Project

Build dozen of project included an accerator for £15, put your Amiga in tower case, use PC part eg Disk drive, ect H recommend, not suitable for beginner 3 disk set only £5.00



Alien & UFO (9 disk) only £8.99

Male ching document of the ARK on short government allows and the control of the

NEW TITLES

CGSS LILTMATE TOUR TENNIS - C disks) Excellent termis game
GSS DARK ANGEL - (NOT WS 1.3) Superb arcade adventure
GSS DARK ANGEL - (NOT WS 1.3) Superb arcade adventure
GSS DARK ANGEL - (NOT WS 1.3) Superb arcade adventure
GSS DARK ANGEL - (NOT WS 1.3) Superb arcade adventure
GSS LEXAME THATAIC - Cool of DA Adventure game
GSS LEXAME THAT - The WAY ANGEL - (NOT WS 1.3) Superb arcade adventure
GSS LAZER RACE - GOOD Tron type, extremely addictive to play
GSS LAZER RACE - GOOT Tron type, extremely addictive to play
GSS MASTER BLASTER - Kill valcius monsters with bombs
GSS MNOCK-OUT Mini derby destruction, very addictive
GSSS DUNGEN BLASTER - Kill valcius monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius in monsters with bombs
GSS DUNGEN BLASTER - Kill valcius poker then this is for you
GSS DUNGEN BLASTER - Kill valcius poker ben this is for you
GSS DUNGEN BLASTER - Kill valcius poker ben this is for you
GSS DUNGEN BLASTER - Kill valcius poker blaster blaster
E258 KID DISK - Zander valcius poker blaster
U10101 TURBO- CAT PRO V12 (10 WB13) - Trate ca

LOTTERY WINNER EXCELLENT COLLECTION OF VARIOUS LOTTERY WINNER PREDICTION PROGRAMS



HIGHLY RECOMMENDED pack only £4.99

MUST BE 18 AND OVER

MUST BE 18 AND OVER

XB0 CINDY CRAWFORD (2)
X74 MADONNA (SEX) (3)
X01 SHOWER GIRL
X03 BODY TALK (2)
X09 MARIE WHITEKER
X09 MARIE WHITEKER
X26 MADONNA EARLY DAYS
X26 MADONNA EARLY DAYS
X28 KATHY LLOYD
X30 MEGA-MAID
X31 CALENDAR GIRL
X27 MAPPAR
X28 MAPPAR
X29 MAPPAR
X29 MAPPAR
X29 MAPPAR
X20 MAPPAR
X21 MAPPAR
X21 MAPPAR
X22 MAPPAR
X23 MAPPAR
X24 MAPPAR
X25 MAPPAR
X26 MAPPAR
X27 MAPPAR
X27 MAPPAR
X27 MAPPAR
X28 MAPPAR
X29 PAGE 3 GIRLS
X20 GON GON GIRL
X21 TINA SMALL
X22 TOT BABE 2
X29 HOT BABE 2
X29 HOT BABE 3
X29 HOT BABE 3
X29 HOT BABE 4
X100 HOT BABE 1
X100 GIRL SIGNOY BUILDER
X103 GIRLS GIRLS
X105 ELLE MACPHERSON
X106 CLAUDIA SCHIFFER

J. 2.0 early to used word processor 5 from Fourth program. Inches to 10 from 1

LITTLE OFFICE 2

HARD DRIVE & DISK DRIVE All this for only £1,99 COMPATIBLE WITH ALL AMICAN U971 EPU V1.6 ONLY 99

Print labels etc. New OGRAM - Accounts

PLEASE ORDER A DISK CATALOGUE ADD 70P OR 3 X FIRST CLASS STAMPS WITH ORDER



FREE PD SOFTWARE

AMIGA - PC - All Commodore

Call (0181) 651 5436 or Write to 45 Brookscroft, Linton Glade, Croydon CR0 9NA www.icpug.org.uk

Independent Computer Products Users Group

DON'T BE DECEIVED by our small advert. We are now in our sixth year of trading and stock thousands of PD titles (from only 60p)

not claim your FREE catalogue, list our titles by sending an SAE to:

PATHFINDER PD (AMC),

41 Marion Street, Bingley, West Yorkshire BD16 4NQ Tel/Fax: 01274 565205. Email: Sales@pathpd.demon.co.uk or download it from our new internet web site: http://www.pathpd.demon.co.uk

JUST CHECK OUT OUR PRICES!

100 Disk Labels £1.45
Mouse Mat £1.99
Disk Drive Cleaner £2.50
A1200 Dust Cover £1.99
AGA Experience CD Vol. 2 £19.99
Assassins Ultimate Games CD Vol. 2 £19.99

Post & Packing for orders under £6 is just 60p and FREE for orders over £6

CAPRI CD DISTRIBUTION ALL AVAILABLE CDTV TITLES IN STOCK AMIGA CO32

225+ CD TITLES/150+ CD32 TITLES/80+ CDTV

NEW RELEASES

DACK IN CTOCK SUNTON	INCOME EMEVELOREDIA
Aminet 13 £14.99	Epic Encyclopedia£29.99
Aminet Set 3£34.99	
Workbench Enchancer £9.99	3D Images £9.99
C64 Sensations 2£19.99	Sounds Terrific 2£19.99
Epic Collection 2£19.99	World Atlas£29.99
Amiga Utilities 2£19.99	Sci-Fi Sensation 2£19.99
Amiga Developers CD.£19.99	More Worms Vol.1£14.99
Emulators Unlimited£19.99	Aminet 14£14.99
AGA Experience 2£19.99	Hottest 6£19.99
	Zoom Release 2£19.99

t9 99°

This is just a small selection of the titles & special offers we have.
Please write in or ring for the latest list.
(Please specify which machine &/or CD drive you have)

CAPRI CD DISTRIBUTION

Dept ACO2, Capri House, 9 Dean Street, Marlow, Bucks. SL7 3AA

TEL/FAX: 01628 891022 TRADE ENQUIRIES WELCOME



THE BEST QUALITY PD & SHAREWARE

The LEADER -OTHERS CAN ONLY FOLLOW!

FREE FRIENDLY HELP BY POST or PHONE ANYTIME! FREE CLUB MEMBERSHIP

PICK YOUR OWN PROGRAMS! BY NAME NUMBER AND SIZE! IT'S EASY! 500k makes 1 bootable disk! 800k makes 1 non-bootable disk!

FREELY UPDATED CATALOGUE
WITH FULL DESCRIPTIONS
INDEX & VIRUS CHECKER ONLY £!!
Phone for the LATEST PROGRAMS!

PO Box 672 South Croydon Surrey CR2 9YS

Tel: 0181-657 1617

1-3 disks £1.50 4 or more ONLY £1.25!

> FREE P&P

an ad on this page call Advertising 01625 878888. Free typesetting service available

ARE YOU MISSING OUT ON THE VERY BEST AMIGA USER GROUP?????

Chic Computer Club offers great discount offers on all computer goods. Thousands of new contacts, free help & advice, gigabytes of free PD/Shareware from our members-only BBS. Regular newsletter. Second hand hardware, software bought/sold. Plus: Now offering FREE Internet Home Page and E-Mail address, and FREE advertising on our Internet site.

Plus Full Internet Connection for LESS THAN £1.00 per month!!!!!

Find out what you're missing by sending an SAE for our FREE intro pack to:

C.C.C. (ACO2), P.O. Box 121, Gerrards Cross, Bucks, SL9 9JP. (01753) 884473

See Chic on the Internet at http://www.uk-main.com/main/chic.htm
We also offer groups for IBM/Apple/Atari/8 Bits/Consoles/Fantasy/SCI Fi Gamers and Midi Music users

Tel 01257 402201 Fax 01942 497928 E-Mail: ssamiga@warp.co.uk

For a FREE catalogue of the latest and best in Amiga Public Domain software simply send us your name & address and a loose stamp

PD prices: 1-10.....80p; 11-20.....70p; 21+.....60p

Postage & Packing is free on all PD orders - Local orders qualify for free delivery All orders are sent First Class and we only use new TDK/Fuji disks

for details of our Amiga User Group (Wigan/West Lancs)

(Dept AC), 79 Woodnook Road, Appley Bridge, Wigan, Lancs WN6 9JR Amiga enthusiasts catering for Amiga enthusiasts!

welcome any enquiries from new and experienced Amiga users alike

To place an ad on this page call Advertising on 01625 878888. Free typesetting service available

Advertisers

Index

1st Computer Centre8, 9	Golden Image51
Active Software90	Gordon Harwood Comp13, 15
Analogic97	Hi SoftOBC, 20
Capri CD86	HIQ46
Care Electronics93	ICPUG86
Dart Computers93	Kew = II86
Direct Software64	Liage International79
Epic Marketing18, 19	Moore Healy Mkt86
Evetech 37	Owl Associates 90

Gasteiner......49 Pathfinder Pd86

Paxtron Corporation	55, 90
PD Soft	70, 71
S & S Computers	86
Siren Software	IFC, 3, 7
Software 2000	84, 85
Underground PD	93
Vision Soft	23
Weird Science	28, 29
White Knight	IBC, 42
Wizard Developments.	38



Neil Mohr explores some common command line parameters



Shell shocked relapse

ast month I ran through a very quick introduction to using the Amiga Shell and CLI. I mentioned that even though most programs now-a-days are run through Workbench, you can still only access certain functions by using the Shell at other times, it is just more convenient to use the Shell.

Take MultiView, if you pop open a shell and type

MultiView ?

This will return a list of all the extra parameters that MultiView understands – this type of list is called a template. These parameters are usually one of three possible types and are denoted by having a tag at the end of each parameter name, these being:

/S - Switch, turns on a function /N - Requires a numerical input /K - Requires a string input

Normally when you ask MultiView to display a file it will do so on the Workbench screen. This is fine for text files but not so good for pictures. By adding the SCREEN parameter, which is a switch as you can tell by the /S shown on the command template, when you specify a file name this tells MultiView to use its own screen instead of a window.

As I mentioned last month, unless you have the original program documentation there is no real way of finding out exactly what each parameter does. If you come across a command you have never seen before, working out what each parameter does and what input it needs is half experience and half guess work.

Generally many commands take similar parameters, two that you will see a lot are PUBSCREEN and SCREENMODE and normally both expect a name to be given. These are both to do with how the command takes advantage of the Amiga's screens.

Since Workbench 2 the Amiga has had what are known as public screens on which any programs can run or visit, the Workbench is a public screen called Workbench. The PUB-SCREEN parameter allows you to specify the name of a public screen and so force a program to run off that screen. You would normally specify the screen name like this

MultiView s:startup-sequence PUBSCREEN="screen name here"

It is important to use quotes, otherwise if a screen name has spaces, only the part of the name up to the space would be used.

The other SCREENMODE parameter is used if a command runs on its own screen anyway. This allows you to force the program to use a specific type of screen – FastView and ViewTek are two examples. You have to provide a specific Amiga screen mode name to get this parameter to work correctly (see box out for screen name information).

FastView is very flexible when it comes to specifying a screen mode as it accepts wild cards in the name. For example, if you have an SVGA monitor that has to have a 30Khz display you can use:

FastView picture-name SCREENMODE="MULTISCAN:#?"

to force FastView to use Multiscan screen modes which are compatible with the SVGA monitor. Again with this parameter you need to put the screen mode in quotes or the program will just ignore everything after the first space and you will not have the screen mode you wanted. In general if a parameter be it a screen mode or file name you should always enclose it in quotes, even if you are not sure.

SCREEN MADNESS

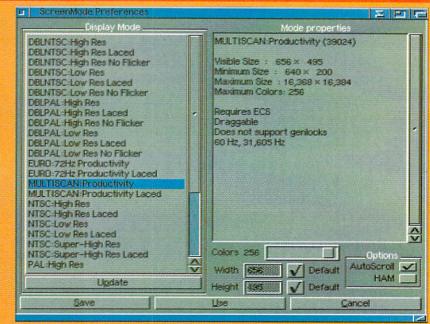
When referring to screens, the Amiga has a number of screen modes each of which have a number of screen resolutions. As standard all Amigas have and are capable of, PAL and NTSC screen modes. The PAL screen mode has a number of different screen resolutions these being 320x256, 640x256 and 1280x256 – all of which can be interlaced to double the vertical resolution to 512 pixels. These are referred to as Low Res, High Res and Super-High Res.

When referring to a specific screen mode, you have to first state the screen mode, put a colon and then put the screen resolution and whether that should be laced or not. To have a PAL 640x512 screen this would be

PAL:High Res Laced Mode Name:Resolution Name

With AGA machines you have a much wider selection of possible screen modes and screen resolutions. Screen names are still written in the same way as for standard PAL and NTSC modes and usually use the same resolution names.

Certain special modes however such as No Flicker and Productivity have been added to pick out these higher 1x1 ratio screen modes and some of the more obscure modes require the actual pixel resolution to be entered such as SUPER72:400 x 150. If you ever want to find out a screen name just use the screen mode preferences to see which are available on your machine.



Look at all those lovely screen modes - most are totally useless except for all the 1x1 ratio ones

Paul Overaa rounds off the gadtool menu discussions



Gadtools Menu Coding

aving explained last month about the various steps needed to install a gadtool defined menu – locking the screen, getting the VisualInfo data, opening the window, creating/laying-out and finally installing the menu – it's time to look at the steps in a little more detail. One unfortunate thing about what would otherwise be a fairly bearable scenario, of course, is that we've got a whole load of library routines to perform, any or all of which could conceivably fail.

Regular readers will know that I have a standard way of handling this problem. Each task to be performed is written as a subroutine pair that contain the initial setting-up/allocation code, and the corresponding closedown/deallocation code. Whenever a routine is successful the deallocation routine address gets pushed onto a deallocation stark.

Listing 1 contains one set of routines – you'll find all the others in the coverdisk source file. The closedown routine, incidentally (Listing 2), handles all error/non-error closedown operations automatically so, other than making sure that all allocation/deallocation operations are coded using the conventions already outlined, we hardly need to think about error handling at all.

One of the other benefits of these arrangements is that getting the various pieces of code executed in the right order is extremely easy – all that's needed is a series of jsr and beq branch instructions similar to those shown in Listing 3.

There's little point installing a menu unless you're able to tell when it is being used. Gadtool menu messages are supplied as conventional IntuiMessages and so programs need to ask for messages of class IDCMP_MENUPICK on any windows that have menus attached.

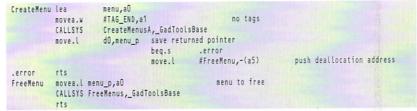
The example code you'll find on the coverdisk also requires IDCMP_CLOSEWINDOW and IDCMP_REFRESHWINDOW so the WA_IDCMP window tag ,which tells Intuition about the message classes we wish to receive, is therefore set up like this:

dc.l WA_IDCMP, IDCMP_MENUPICK |
IDCMP_CLOSEWINDOW | IDCMP_REFRESHWINDOW

Listing 4 is the menu-related fragment of the event handling code that shows how the identifi-



It may only be menus, file requesters and simple print routines at the moment – but this months's skeleton code is going to develop into a novel utility



Listing 1: The paired allocation/deallocation routines used by the example code to create and free the gadtool menu.

cation magic is performed. As menu events – IntuiMessages of class IDCMP_MENUPICK – arrive, they need to be checked to see to which menu option they correspond.

The 16-bit im_Code field of these menu event IntuiMessages contain the menu number in bit 0-4, the item number in bits 5-10, and a sub item number (if used) in bits 11-15.

Since we only have one menu in use (and no sub items) all we need to do is copy im_Code field, left shift by five places, and then logically AND the result with 3F hex in order to get a menu item number.

It's easy enough to do and the only thing you need to watch out for is filtering any extraneous menu events which arrive whenever a user starts to make a menu selection but then changes their mind and releases the right mouse button. In these cases menu events with a code MENUNULL are transmitted and obviously need to be recognised and ignored.

THE COVER DISK CODE

The source you'll find on the coverdisk, or on our web site menu.s, and the runable equivalent which I've cunningly called 'menu', certainly provide a working gadtool menu example. But it's a little more than this... I've taken the trouble to include some asl file requester code and, so that the program at least does something visible at the moment, a couple of temporary text printing and clearing routines which display any directory selections that are made.

Why the interest in directories? Well the example code is actually a skeleton framework that will be turned into a useful utility over the next couple of issues.

I'm going to build a utility that allows you to specify a directory and then read the date stamps

closedown move.l (a5)+,d0 retrieve
function pointer
beq.s lib_normal_exit
move.l dd,a0
jsr (a0) and execute
routine if it exists!
bra.s closedown

Listing 2: The menu removal operations occur automatically as this closedown loop is executed.

```
LockScreen
           closedown
bea.s
jsr
           GetVisInfo
beq.s
           closedown
           OpenWindow
beq.s
           closedown
isr
           CreateMenu
beq.s
           closedown
           LavoutMenu
isc
           closedown
beq.s
           InstallMenu
jsr
beq.s
```

Listing 3: This type of jsr-based control code is all that's needed to get the various menu installation routines executed in the correct order!



This type of directory-only style asl requester is obtained by using the ASLFR_DrawersOnly tag

of every file present, converting and exporting them in ASCII form. One obvious use of a utility like this is to run it over directories which contain Web page files and then use the date information produced to incorporate 'last updated' date stamps in the Web site pages!

MenuMessage	cmpi.l #IDCMP_MENUPICK,d3	check message class
bne.s		NotMenuMessage some other message types
cmpi.w	#MENUNULL,d4	
beg.s	GetMessage	ignore if MENUNULL
lsr.w	#5,d4	extract menu item number
andi.b	#\$3F,d4	
cmpi.b	#SPECIFY,d4	
beg.s	SpecifyFile	

Listing 4: Part of the event handler code which identifies menu item events.

Want to get connected?



AMITCP v4.5 DIALUP [NEW!! FULL TCP STACK]

VOYAGER v1.10 [EXCLUSIVE!! NEW WWW CLIENTI

MICRODOT-II [NEW MAIL AND NEWS CLIENTI

AmFTP

[INDUSTRY STANDARD FTP CLIENT]

Amirc [INDUSTRY STANDARD IRC CLIENT]

... AmTelnet [TELNET CLIENT - AMFTP AUTHOR!]

AmTalk IINTERNET CHAT CLIENTI

mFinger [FINGER CLIENT]

> AmTerm [NEW COMMS/BBS CLIENT]



EASIER

Wanting to get onto the Internet? Already connected, but frustrated with your software? NetConnect is all you need to get connected to the Internet and contains a suite of seven commercially licensed Internet applications. You won't find an interface as easy-to-use as NetConnect's! We have spoken at length to so many of our customers about getting onto the Internet - we know exactly what you need and what you want. You want software you can use - not shareware but commercial software, you want the hassle taken out of the installation and you want a suite of the very best Amiga Internet software. Indeed, to make NetConnect the very best we organised programmers to enhance their software - so you get previously non-released software. NetConnect contains a full TCP client worth over £35 in itself! You can save masses of £££'s from buying NetConnect as there is no need to licence the Internet software full versions all licenced for you!

NetConnect's GUI does more than control/manage AmiTCP! It also gives you a completely editable icon bar (see pics) to control and manage your programs. No other Internet pack meets the specifications of NetConnect! Ask for a time-limited demo version!

Modem Offer & Specifications



- 33600 bps DATA/FAX modem true v344

- Soud place of the second of t
- cifications)
- BT and CE Approved

 Amiga serial cable included
- Full "get started" documentation
- 5 year warranty also undergone rigorous Amiga tests



VOYAGER - WWW



MICRODOT 2 - MAIL/NEWS



AMFTP - FTP



AMTELNET - TELNET



AMIRC - IRC



ICON BAR EDITOR GUI



AMITCP CONTROL GUI

NETCONNECT PRICES

£ 59.95 **NetConnect Disks** £ 59.95 NetConnect CD 33.6 Modem £119.95 33.6 Modem & NetConnect [CD or Disks] £149.95 33.6 Modem + NetConnect

for under £150! Amazing!

with Enterpri

Buy NetConnect and get FREE connection to Enterprise (worth £20 ex. VAT or £23.80 inc. VAT)!

Send your order to: Active Software, PO Box 151, Darlington, County Durham, DL3 8YT, ENGLAND.



01325 352260



active@enterprise.net

Postage and Delivery

£4 for next day delivery £15 for Saturday delivery

SP's Worldwide NetConnect allows

you to select your country then select an ISP (easy!) - we have about 160 ISP's listed from 29 differ-ent countries (58 from the UKI). Nearly 1009 of the WORLD is cov ered for any user who wants to connect to the internet!

Lowest Priced Top Quality Ribbons, Inkjets, Toners & Disks

BLACK strad DMP 2000/3000 strad DMP 4000 strad PCW8256/8512/LQ3500 strad PCW8256/8512/LQ3500 BLACK Panasonic KXP1123/1124/1140 Panasonic KXP1080/1180/90/1592 Panasonic KXP2123/2180 Selkosha S130/92/95 Star LC10/20/100 4.80 5.55 2.14 2.85 2.71 2+ 11.80 ther M1009/10/24/1103/12 zen 120D/LSP10/Swift 24 nmodore MPS 1220/1230 5.35 5.15 1.94 1.84 2.65 2.45 2.51 2.31 5± 10+ 11.60 11.20 10.28 9.88 5.65 5.25 9.43 9.03 9.28 8.88 COLOUR Citizen Swift 24 n FX/MX/RX80/FX/LX800 n LX80/86/90 Panasonic KXP2123/2180 Star LC10/20/100 Epson LX80/86/90 Mannesmann Tally 80/81 NEC Pinwriter P2200 OKI ML182/183/192/193/195 2.48 2.62 These are just a small selection of our Ribbons - Ring for those not listed

Ring us and WE WILL BEAT all other Ribbon prices

3½" Disks & Disk Boxes Bulk HD Branded DD £5 DD HD £6 £6 £9 25 Disks £10 £11 50 Disks £16 £18 £24 £36 100 Disks £29 £33 £41 £66 £65 £76 £96 £153 500 Disks £125 £288 £187 All Disks Certified 100% ERROR FREE

& INCLUDE FREE Labels Lockable 3½" Boxes/Draws 100 Capacity Box 5.99 50 Capacity Box 4.99 Other Boxes & Wallets 3/2" 10 Cap. Boxes 1.50 3/2" 6 Cap. Wallets 3.99 240 Capacity Draw 18.99 Lockable CD Drawers 30 Capacity 16.99

Various Dust Covers available from £3.99 Ring For Cartridges & Refills not listed

Inkjet / Bubblejet Cartridges
 1 off
 2+
 5+

 16.30
 16.10
 15.90

 7.00
 6.80
 6.60

 11.00
 10.80
 10.60

 10.80
 10.60
 10.40

 21.00
 20.80
 20.60

 22.50
 22.30
 22.10
 Canon BJ 10/10ex/20 Cartridge HP Thinkjet/Quietjet Cartridge 10.80 10.60 10.40

Inkjet / Bubblejet Refill Kits 8.50 for 2 x 20ml Refills 8.50 for 2 x 12ml Refills 8.00 for 2 x 12ml Refills 10.50 for 9ml of each Col 11.00 for 2 x 40ml Refills 12.00 for 12ml of each Col 8.50 for 2 x 20ml Refills HP D'jet 500 Series Black HP D'jet 500 Series Tri-Col Star SJ48

Normal UK Delivery £2.00, Next Day £7.50

Prices INCLUDE VAT (@ 17%%)

Ring us or send cheques to: 01543 250377 Owl Associates Ltd, Dept 504, Owl House,

5 The Brambles, Lichfield, Staffs WS14 9SE

2.91 2.34 4.40 5.15 1.84 2.45 2.31

WANTE



COMPUTERS

New or Used (NTSC or PAL)

Call Toll-Free: 800 595 5534 Telephone (914) 578-6522 Fax (914) 578-6550

PAXTRON CORPORATION 28 Grove St., Spring Valley, NY 10977 Phil South presents some more AMOS routines to add to your collection



Tree Time

his month I got a letter from a J Chantler who, unlike so many people involved in AMOS, is actually over 35. In fact he's way over 35 – he's 70. I know, it took me by surprise as well. Well J, you sent me a few old AMOS routines which you had in your archive and it was a real blast to see some of them again. One in particular I remembered from a long way back and decided to give a revamp.

It's a program that makes fractal trees, I'll mention a few refinements you can make in a minute, but basically here is the program:

Screen Open 1,640,512,16,Hires Hide : Curs Off : Cls O

A fairly common start, I think you'll find. Hide everything and make the scene black:

_START:

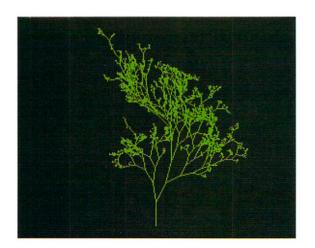
This is a label which gives the program a point to go back to when each tree is finished. At the end of each render, the machine waits for you to press a key and the process starts again with the next tree being written over the last. (I don't know why I did that, but just liked the look of it.)

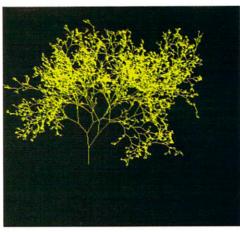
PICKINK

This PICKINK procedure is the one which chooses the colour of the tree and we'll come to that at the end:

L=2 : Degree FRACTREE[320,255,25,0] Wait Key : Goto _START

And this monumental three lines is the main program. Impressive huh? Okay, not really,





but the results are good.

Procedure FRACTREE[XB,YB,D,T]
Shared Z
X=b*Sin(T)+XB
Y=YB-D*Cos(T)
Draw XB,YB To X,Y
If D>Z
FRACTREE[X,Y,D-Rnd(5),T-Rnd(45)]
FRACTREE[X,Y,D-Rnd(5),T+Rnd(45)]
End If
End Proc

This is the main proc. and begins by making the variable Z a shared one, allowing us to use the products in the main program. The first bit of maths calculates the position of the first strokes, the program feeds back on itself calling the procedure from within and we're off. The tree is built.

Procedure PICKINK
I=Rnd(15)
If I=3 or I=0 Then PICKINK
Ink I
End Proc

This last proc picks the colours from the 15 available. It carefully chooses not to select the flashing colour 3 or 0 which is black, so you always get a non-flashing and non-black colour for the tree. (If it was black it wouldn't show up and if it flashed it would drive you batty!)

Added refinements to the program could include: A method of saving the pictures and a method of choosing to overwrite or start again. Overwriting is easy, just put in a query "do you want to continue, restart or quit (C,R or Q)?" and then use a test to see what was pressed. To avoid spoiling the picture you could put your message on another screen which is only about 25 pixels high but the full width of the screen.



Saving is easy: Use the SAVE IFF command and use the Fsel\$ file selector. Something like this:

F\$=Fsel\$("dhD:amos graphics/iff/*.iff",,"Save the File",) Save Iff F\$

Insert this before the WAIT KEY command and you will save the picture each time a tree is drawn. This is still a very simple program and you could, if you have any knowledge of fractal maths, put in a pop-up menu with some method of altering the maths to get a different result.

WRITE

If you have any other AMOS programs or queries about AMOS, please write to the usual address: Phil South, Amos Column, Amiga Computing, Media House, Adlington Park, Macclesfield, SK10 4NP. Please send routines on an Amiga disk with notes on how the program works on paper, not as text files on the disk. Make the routines short enough to appear in print, i.e. no more than about 30-40 lines of code and if possible make them use no external graphics, or if they can't be used without them then be sure to provide them on the disk in native IFF format, the same goes for sound files. Follow these guidelines and you stand more chance of getting your routines into print.

Part three of the Photogenics' tutorial looks at composition



It's composition time!

he fairly straight forward alpha channel tutorial last month leads nicely onto Photogenics' composition function. It may not look much, just a single menu item, but provides a powerful tool when it comes to combining images.

To begin with, you are going to have to load in a few images to let you fully play around with the compose tool. So load the normal spaceman and zebra tutorial images – you will also need the zebra alpha clip image.

The compose tool works by combining two images, one on top of the other. The background image is the primary image and the one you want to overlay has to be made the secondary image. You can do this by dragging the image icon to the secondary slot, or remember the keyboard short cuts, 1 to make primary, 2 for secondary and 3 makes an image the alpha channel.

Once you have them all loaded, make the zebra image the secondary one. If you now click back on the spaceman image you will be able to select the compose item from the image menu. A big old zebra head will appear over your spaceman picture and a new requester. You can now move and resize the zebra image to whatever size and posi-



Using the blend tool you can 'paint' the zebra image onto the spaceman image and you can of course move and resize it as well

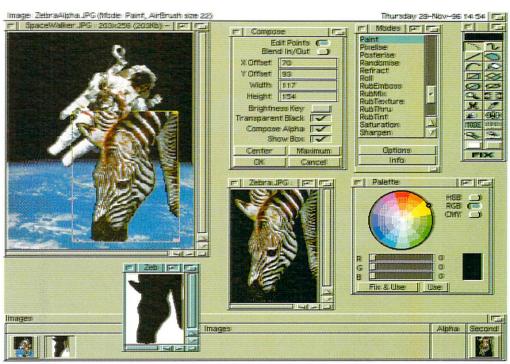
tion you like using the guide boxes that outline the zebra image.

Plonking one image onto another is not normally what you will want and a little more subtly is required. If you now make the zebra alpha clip image the actual alpha channel, you will see the alpha can happily be used as normal and cuts out the zebra's head. The alpha channel action can be de-activated at any time by de-selecting the alpha switch in the composite requester. You will also be pleased to see the alpha is scaled right along with the normal zebra image, so you don't have to worry about doing this yourself.

Using the alpha method may be fine if you have an alpha channel already drawn up, but otherwise it is not the most convenient way to use the compose function. De-activate the alpha channel in the compose requester and select the blend radio gadget. You can now draw directly onto the primary image as you would another image, but this time you are painting whatever the secondary image is onto the main image.

The final thing is an alternative to using alpha channels to block out parts of the image. If before hand, you paint black onto the parts of the secondary image you don't want to see and then set up a compose, these black areas will be made invisible when you select the transparent black tick box.

One last thing you should remember when you have blend selected, is you are still using the normal Photogenics paint tools. It is the rubthru tool that you see selected and at any time you can select another paint tool and use that effect on the main image.



Photogenics using the black transparency mode to leave parts of the zebra unseen on the main spaceman image

FIXED PRICE ONLY £38.99

- Price includes PARTS, LABOUR & VAT
- 90 Day Parts and Labour Warranty

* Includes FULL DIAGNOSTIC, SERVICE & SOAK

Upgrades fitted free with repair If drive/keyboard needs replacing + £10

(add £6.00 for return carriage)

AMIGA A1200 Repairs only £48.99 Fully inclusive ****** Repairs while-you-wait add £10.00 ******

MPONENT

We are the largest distributor and retailer of Amiga spares in the UK with an inventory of some 150,000+ parts. Large quantity discounts and catalogue available to trade.

A500 Internal Drive £28,99
A600/1200 Internal Drive £28,99 KickStart 2.05

Super-Buster IC A520 Modulator Xchg 8520 CIA

£19.90 £15.00 £18.00 £12.00

OFFERS A1200 Keyboard A600 Keyboard A500 M/Board v6 CD-32 PSU **CD-32 CDROM Drive**

£19.00 £58.00 £25.00

€34.00

(A500/+, A600 and CD32 Only)

Est. 16 Years

CHIPS KEYBOARDS CASES PSUS DRIVES PCBS AMIGA PC KEYBOARD ADAPTOR (All Amigas) £25.00 PC Keyboard £16.00

DART Computer Services 105 London Road

LEICESTER LE2 OPF

(0116) 247 0059 FAX (0116) 255 8643











Postage & Packing add £3.00

CARE QUALITY & SERVICE

QUALITY INK JET & BUBBLE JET REFILLS

ur refills use only top quality inks. You buy direct from us hence our superb quality at sensible pric Black refills for HP Deskjet 500, 510, 550, 500C, 550C, 560C, 660C, 850C Black Ferliis for HP Deskjet 500, 310, 5305, 5306, 5306, 6006, 6006, 8506
CANON BC-01, B110E/EX/SX, BC-02, B1200, B1130, B130, B1330
EPSON STYLUS 800, 1000. CITIZEN PROJET. OLIVETTI JP150, 250, 350.
6 refill (3 on high capacity cartridges) kit 120ml pure black. £16,99
CANON BJC600, BJC4000/4100 20 refills pure black 120ml, £16,99
EPSON STYLUS 4 refills 120ml pure black. £16.99

TRICOLOUR REFILL KITS:

HP Deskjet range 10 refills of Yellow, Magenta & Cyan 180ml £24.99
CANON BJC210, BJC600, 4000/4100 10 refills of Yellow, Magenta & Cyan 180ml £24.99
EPSON STYLUS Colour/II/IIs of Yellow, Magenta & Cyan 180ml £24.99
"Print Head Recovery Fluid" for unblocking nozzles, new larger size, new lower price £6.99
all kits come with full instructions. Other refills available.
Important: Please state type when ordering

Colour Printer Ribbons & Reloads

To Reload a ribbon is easy, just remove the top, take out the old ribbon and reload it with a new one. Complete roload reload re Panasonic KXP2123/2124/2180 Panasonic KXP2135 £9.99 £6.99 £29.95 Star LC200 9 pin Star LC24-10/20/200 Star LC24-30/LC240 Seikosha SL95 £9 99

Special Re-Ink

For Panasonic 1080/81, 1123/24, 2123/80, 2135, Star LC200 9 Pin, Epson LO100/150, Oki 182 to 390 range. Black bottle will re-ink 100 + ribbons £9.95

Black Printer Ribbon Reloads

Citizen Swift/ABC/120D 5 black reloads.. £9.99 Star LC10/20/100 5 black reloads............. £4.99 Star LC24 range 5 black reloads..... Seikosha 1900/2400/SL95 5 black reloads £9.99 Epson FX80 to LQ800 range 5 black reloads£11.99 Star LC24-30/LC240 5 black reloads£14.99

T-shirt printing is simple, just print onto normal paper & iron on. One ribbon gives lots of prints. We can also supply ribbons in many colours T-shirt and normal ink.

T-Shirt printing ribbons

4 col Citizen Swift/ABC/240....£19.99 4 col Panasonic 2123/2135£19.99 4 colour Star LC200 24 Pin£19.99 reloads for above £9.99 4 colour Star LC200 9 Pin£12.99

4 colour Star LC10reloads for above £7.99 .£10.99

Black Citizen Swift/ABC/120D £9.99 Black Panasonic KXP1123/24 ...£9.99

Prices include VAT & postage. To order send cheques/PO payable to:

CARE PRODUCTS



~

Dept AMC, 15 Holland Gardens, Watford, WD2 6JN or use Visa/Mastercard or Education order Fax order line 01923 672102

Tel ORDER LINE 01923 894064



FREE

GAMES CHEATS 1.4 EMULATOR ON ALL ORDERS

UNDERGROUND D

J 294 KLACK-TRIS COLMS ☐ 107 TWIN-TRIS TETRIS

⊒ 293 DR. MARIO COL ⊒ 626 MEGA-BLOX TE

☐ 1627 PILL - MANIA PAC-MAN GAMES

J 1346 WABES PAC MAN

J 459 MEGABALL V2 ⊒ 1459 CYBERSPHERE ⊒ 559 MEGABALL V3

J 1423 MINE TRASHER

☐ 1569 BUG MINES

☐ 1572 UNDER MINES ☐ 1573 GOLD MINES

☐ 1573 GOLD MINES
☐ 1577 EMERALD HEAD
☐ 1580 EXPERT MINES
☐ 1582 DENMARK MINES

☐ 1689 RO-BOULD-IX

PUB-CLUB GAMES
☐ 1304 CHECKERS V2

J 1182 A12 NIGHTMARE

→ 953 CHANEQUE 2 DISK

☐ 1211 AMIGA GEMZ

☐ 1546 EXPERT BALLS

J 1633 THE WOOGLIES

⊇ 876 SCOTTISH LEAGUE

1404 METROS MANAGER

1765 BRAIN BALLS

⊒ 443 SLAM BALL

J 817 BLOOD BALL

☐ 1763 AIR TRAFFIC

☐ 1597 QUIZ 555

☐ 1771 MICRO MART 3 QUIZ GAMES ☐ 1031 TREK TRIV 5 DISK

J 462 WHEEL OF FORTUNE

J 1583 STYX MINES

FREE FREE

LIBRARY DISK POST & PACK

ON ALL ORDERS

J 1330 CAPTAIN BONUS

J 1445 10 C.W. GAMES J 1712 DITHELL & MUCI J 1701 ITS HIDEOUS J 1684 THE BIRDIES

SPACE BLASTERS

1911 SOLO ASSAULT
1906 OBLITERATOR
1498 THE LAST REFUGE 1434 SPACE BLASTER

J 1434, SPACE BLASTER J 1473 EXENEX APROIDS J 1706 THE ASTRO KD J 1789 MEGA TYPHOON ARCADE GAMES J 555 HHGO V2 5 DISK J 273 KELLOGS EXPRESS J 1388 ALIENS F.E J 1338 STRIKE COMMAND J 1500 U P.D. 24 GAMES PD. VERSIONS

I

J 025 HUNTER PLUS J 025 HUNTER PLUS
J 815 LEMMINGS PACK
J 023 RICK DANGEROUS
J 1457 TI-FIGHTERS
J 022 THE GODS

J 026 ROBOCOP V2
J 1703 S.W.O.S EARTH
J 1702 S.W.O.S MOON
J 1778 PINBALL FANTASY
COMBAT GAMES
J 941 FATAL BLOWS

J 941 FATAL BLOWS
J 938 MARTIAL SPIRIT
J 290 FIGHT WARRIORS
J 1238 WEAPON MASTERS
J 1428 CYBERGAMES 3DSK
J 1548 FIGHT A1200

CLASSIC GAMES

J 011 ASTEROIDS

J 693 MISSILE COMMAND

J 778 OVERLANDER

J 692 SPACE INVADERS

J 841 COOKIE

J 308 DONKEY KONG

DRIVING GAMES

J 469 THE ROAD TO HELL
J 1417 MANG FENDERS V2
J 1466 A12 KNOCK OUT
J 1642 A1200 EX RACING
J 1686 HILL CLIMB
J 1705 A12 AER RACERS I

J 974 F1 EDITOR 95/6

SIMULATORS

J 926 HELICOPTER
J 332 SEALANCE-SUB
J 333 BATTLE CARS V2 → 1273 A12 TRAIN DR

☐ 1014 CRAZY GOLF ☐ 366 GOLF 18TH 2 DISK ☐ 822 CRICKET AMOS V2 ☐ 630 TEN PIN BOWLING

J 1171 2 DSK CRS-ANGLER J 1373 ICE HOCKEY J 1317 A12 GON FISHING J 1465 A12 2DSK TENNIS 13 → 1251 TENNIS TOUR 1630 INTER CRICKET

☐ 1700 GOLF 9 HOLES ☐ 1667 TABLE TENNIS

☐ 1667 TABLE TENNIS ☐ 1329 U.S.A. BASEBALL HINTS & CHEATS ☐ 418 1000 CHEATS ☐ 931 BACKDOOR V3 ☐ 821 PASSWORD MANIA J 821 PASSWORD MANIA J 813 GAME TAMER V4.5 J 820 MEGA CHEATS J 681 SIERRA SOLUTIONS 1118 UP TO DATE VI ☐ 1358 GAME SOLUTIONS

OVER 18 GAMES J 1328 ADULT JIGSAWS

J 1328 ADULT JIGSAWS
J 1307 TERRORLINER V3
J 997 2 DSK ADVENT V1
J 1001 2 DSK ADVENT V2
J 101 TERROR LINER V1
J 1081 ADULT TETRIS
J 1176 A12 NUMBERS V2 J 1248 STRIP POKER J 1145 A12 NUMBERS V1 J 1335 ADULT DROIDS J 1533 DRAGONS BALL J 1517 ADULT BOMBER ☐ 1514 STRIP SLOTTER

J 1654 LEGO BREAKOUT J 1768 4 DSK A12 ADVENT

J 1687 TILE MANIA

J 119 DRAGONS TITLES

☑ 1463 FULL SCNEBITZ ☐ 1477 BOMB MANIACS ☐ 1476 MARBEL-LOUS

☐ 1037 MARBLES GAME ☐ 1035 ATOMIC GAME

 □ 205 AMIGA PUNTER
 □ 228 PERM CHECKER
 □ 1210 LOTTO LUNATIC 1438 A-GENE VE

J 1594 LOTTERY SYSTEM

J 1682 THE PHYSICIAN

A1200 MEGA DEMOS

J 1270 DOOM RAVE J 252 YUM YUM PAC MAN J 1096 PUC MAN J 1138 A12 CYBER MAN J 1648 A12 BOBS LEMON

AMIGA MEGAD J 460 TEKNO RAVE

☐ 1015 2DSK TAZ QUEEN
☐ 1120 2DSK TAZ QUEEN 2
☐ 1104 2DSK OXYGENE

J 104 2DSK OXYGENE
J 1084 ASCII NOT 1.3
J 1785 TECHNO TRACKS
A1200 SLIDE SHOWS
J 740 4 DISK MANGA
J 1271 PIXEL STORMS ☐ 1193 LEMMINGTONS ☐ 1040 3 DISK GLAMOUR

☐ 061 PAT NAGEL'S GIRLS → 936 AVIATION HISTORY J 1060 5DSK LION KING

J 1498 NIGEL MANSELLS
J 1498 NIGEL MANSELLS
J 1472 YABA DABA DO
ANTWORK PACKAGE
J 063 ULTRAPAINT
J 349 SPECTRACOLOUR
J 748 ILLUSION PAINT
J 1460 A-Z PAINT PAD ⊒ 222 FRUIT MACHINE ☐ 375 CARDS SOLITAIRE ☐ 1246 AMIGA CRIBBAGE ☐ 1362 PUB DARTS TOUR ☐ 560 WORLD DARTS ☐ 1450 SAT SNOOKER

1707 PERFECT PAINT J 631 SCRABBLE

J 1707 PERFECT PAINT
J 1760 JNR PICASSO
ARTWORK PROGRAMS
J 1299 A12 MAGNI-CAD
J 071 GRAPHICS CON KIT
J 070 GRAPHIC UTILS
J 133 FRAC LAND BUILD
J 1026 PICTURE LAB
ANIMATIONS
J 084 PUGGS IN SPACE J 476 CHESS GAMES

J 1433 LIFT & LADDER

ADVENTURE GAMES

J 116 STAR TREK 2 DISK

☐ 1671 BREED 1996

J 084 PUGGS IN SPACE J 233 COOL COUGAR J 651 FAIRLIGHT 242 J 831 RED DWARF J 475 BAIT MASKING J 463 MR POTATO HEAD J 347 NEWTEK V3 2 DISK J 187 ANIMATION STUDIO STRATEGY GAMES

3 876 GLOBAL NUKE WAR

J 826 IND-ESPIONAGE

☐ 1449 BATMAN V JOKER J 1170 A12 LORDS 2 DSK J 1431 UFO UNCLOTHED J 1547 SOLO STAR TREK J 1623 FLEET - 2MEG

J 1447 2 DSK JAPMANGA
J 1784 BAIL OUT VOL 3
AMIGA VIDEO
J 329 VIDEO INSCRIPT
J 790 VIDEOTRACKER 5 DISK
J 148 S-MOOVIE
MUSIC MAKERS

→ 220 FUNK KEYBOARDS

J 661 MED WORKSHOP 4 DISK 1 202 MED V3 2 ☐ 729 DRUM MACHINE ☐ 787 SONIC DRUM KIT J 738 OCTAMED V2

☐ 136 THE ART OF MED☐
☐ 192 THE COMPOSER ☐ 618 MUSIC DATABASE 1981 AUDIO ENGINEER J 1268 HIPPO PLAYER

J 1681 PROTRACKER 3.5

J 1791 OCTATUTOR V CLASSIC-POP

HIRS COTTONEYE SONG

234 VIVALDI 2 DISK 342 AMIGA-DEUS → 620 BAGPIPE MUSIC J 473 RHYTHM'S DANCER

J 1357 2 MEG DACO V J 1757 HEAVY METAL

⊒ 660 KORG 01W 8 DISK

☐ 647 SOUND FX 3 DISK → 619 DRUMS 2 DISK 1 1588 DANCE 5 DISK

⊒ 423 2 DISK SPECTRUM J 889 PC EM 2 DISK ⊒ 327 ACTION REPLAY ⊒ 955 DOWN TO A500 ⊒ 313 UP TO A500 PLUS ⊒ 414 UP TO A1200

J 1779 MESSY SID VOL 3 DISK COPIERS J 380 NIBBLER (NIB) ☐ 727 MULTI TASK (MT)

☐ 158 X.COPY PRO☐ 357 COPY AND CRACK☐ 325 LOCK PICKER V2 ☐ 1667 COPY & CRACK V2

HARD DRIVES ☐ 780 W/B 2 INSTALL ☐ 621 H/D STACKER → 665 MR BACK UP PRO → 490 8 DISK MAGIC W/B J 957 GAME INSTALL V2 ☐ 1141 GAME INSTALL V3 ☐ 1199 GAME INSTALL V4 ☐ 1692 A BACKUP V5 ☐ 1674 CD ATAPI → 1775 2 DISK MUL 3 6

☐ 1770 2 DSK ERROR TALK ☐ 243 AWARD MAKER 4 DISK → 065 AMIGA FONT 7 DISK

☐ 100 PRINTER DRIVERS ☐ 048 PRINTING STUDIO 345 BANNER MAKER → 057 TEXT ENGINE V4 ☐ 394 INVOICE PRINT ☐ 749 FORM PRINTER ☐ 1658 CARD AND LABEL

→ 832 DATABASES 2 DISK → 092 ACCOUNT MASTER 240 ADDRESS BOOK J 470 LITTLE OFFICE

J 244 SPREADSHEET □ 535 UK S.T.D CODES

11464 DIARY 2000 ☐ 1368 AMIBASE V4 ☐ 1758 DAILY LIVING COLOUR CLIPART

J 637 6 DISK COL/BRUSH

J 633 7 DISK CLIP ART
J 901 9 DISK WORLD MAP
MONO CLIP ART

172 15 DISK PORTFOLIO

1558 7 DISK CLIP ART

AMIGA MODEM

1702 COMMS TUTORIAL

 □ 413 N.COMMS V3
 □ 079 OPTICOMMS V2 ⊒ 1032 MAX BBS PROG 1562 EASY D.M.S. PROGRAMM

J 306 UNDERSTAND AMOS ☐ 722 TONS OF AMOS ☐ 1067 AGA DATATYPES ☐ 1691 NORTH C

☐ 1754 AMIGA DOS FRAU DO IT YOURSELF

1 239 SLIDESHOW MAKER ⊒ 808 MAKE A DISK

J 242 MENU MAKER

J 1154 HEDLEYGUIDE A12

VIRUS CONTROL

J 506 A1200 VIRUS

J 160 M.V.K PLUS J 1440 Z CHECKER V6.4

AMIGA UTILITIES

J 1030 A12 DIONIC TOOLS

3 612 4 DISK TOOL KIT J 1629 UN-ARCHIVER

DISK & SYSTEM

J 166 SYSTEM TESTER

 □ 467 FILE UNDELETE
 □ 194 DISK OPTIMISE
 □ 356 ENGINEERS KIT J 245 FIX DISK

☐ 245 FIX DISK
☐ 168 HARDWARE MANUAL
AMIGA EDUCATION
☐ 766 GEOGRAPHY ☐ 532 MATHS 5 DISKS

☐ 644 ENGLISH 4 DISK ☐ 486 LANGUAGES 4 DISK 270 PLANETS 6 DISK D 059 AMIGA TUTORIAL

J 937 A1200 / 600 TUTOR ☐ 1361 2 DISK INTERNET ☐ 1360 AMIGA GUIDE

DISK COST £1.50 EACH, NO MINIMUM ORDER, ALL VIRUS FREE AND USER FRIENDLY. All games are on 1 disk and run on all Amiga's unless otherwise stated
PICK AN EXTRA DISK FOR FREE WITH EVERY FIGHT DISKS YOU PURCHASE

		CHOEDLIDVNEC		

	UNDERGROUND PD, 54 CARMANIA CLOSE,	SHOEBURYNESS	, ESSEX	SS3 9YZ.	TEL: 017	02 2958
į	Name:	Amiga Mode	el:			

Larry Hickmott explains how to make the most out of DrawStudio

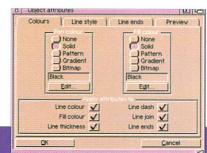


Easy on the Draw

n the following tutorial, I want to show you some things you can try with your DrawStudio coverdisk. Things which I'm sure will bring a smile to everybody's face when they see how flexible the program is for creating graphics for video titling, web imagery, DTP and so on.

Text can be created easily by stamping the text tool on the page and just start typing





TEXT FOR TITLES

Your first step is to select the Text tool. Now stamp it down anywhere on the page. Type the words Amiga Computing. With the object selected, choose the menu item, View/View to Selected Objects. You can also use the Magnify tool to zoom in.

So far we have an ordinary piece of text. Now let's really jazz it up. Making sure the text is still selected, choose Object/Convert to Bezier. Now choose from the Object menu, the item called Attributes. A panel appears so you can choose the attributes for your text. Click on the Line Style tab and choose a 1 point line weight (it should already be this). Now click on the Colours tab and click on the Gradient button in the Pen Colour column. Click on the Edit button in the same col-

The Gradient list appears. Choose the gradient

called CD. Click OK and then click on the Bitmap button in the Fill Colour column. The bitmap list appears but because we have no bitmaps loaded yet, click on New and then on Edit. We need to load a bitmap into DrawStudio, so click on New in the Project Bitmaps area of the requester.

A requester will appear for you to choose a bitmap. You'll find a useful one in the Image drawer (inside DrawStudio's drawer) called Raindrops.iff. Click OK to select it and it will be loaded into DrawStudio and once present, will appear in the Preview window. Call your bitmap fill AC TITLE. Change the Fill Type to Tile and change the dpi to 150 in the X DPI and Y DPI text gadgets.

Click OK, and OK again and then click on the Preview tab. After a short while, DrawStudio will show the text and the line fill. Now for the big test,

The Object Attributes panel enables you to apply line weight and styles to objects as well as different types of fills. There is even a preview so you know how it's going to look

click OK and the attributes will be applied to your text. As you can see, the text is a little small, and so the bitmap fill isn't that prominent. To correct this, zoom out by choosing View/View Full Width.

With the Pointer tool selected, grab one of the corner handles and stretch the text. After a short while, the text will redraw and you will see the fill more easily.

Now that you have created the text, what now? How about converting it to a bitmap so it can be used in a DTP/word processing package, a Web page or even a video titling program?

CONVERTING SMOOTH T O

To convert the text to a bitmap, make sure the text is still selected and choose Convert to Bitmap from the Object menu. When the Convert to Bitmap panel appears, leave it set to 24-bit for the best quality, change the DPI to 150 (x & y) and press return. Also make sure Anti-aliasing is selected and Clone is not active. This process will create a rather large bitmap title suitable for DTP but probably too big for Web graphics and Video work.

To create a smaller title you can leave the DPI set to 72 dpi or less. Just make sure you have anti-aliasing selected so the text will look super smooth around the edges.

The last thing you would do and this can only be done in the full version (sorry folks), is to export this bitmap from the Bitmaps requester, (View menu) so it can be used in other applications. DrawStudio supports TIFF, IFF-ILBM, BMP, JPEG, GIF (256 colours or less only) and PCX when exporting and importing. You can also export as EPS, although you don't need to do this to get super smooth output.

As you can see, with DrawStudio, you don't need to know how to draw but having a great imagination helps in creating eye-catching graphics! This tutorial has covered just the tip of the iceberg when it comes to the things DrawStudio can do for you.

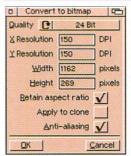




To convert an object to a bitmap, use the Object/Convert to Bitmap menu item

AMIGA COMPUTING FEBRUARY 1997

The Edit Bitmap requester can be used to load in new bitmaps, create new fills with the same or a different bitmap, or apply different bitmap fill types to various bitmap fills. It is possible for example, to have two different bitmap fills, with the same bitmap image with one filling an object, while the other is tiled within an object



Lists of gradient types can be created and saved to disk to use with specific jobs or saved as the default so they are always present

The Convert to Bitmap panel is easy to use and thanks to its anti-aliasing button, smooth titles can be created in no time



Paul Overaa, discovers a surprise Amiga music software gift



Musical Connections

Ithough it may seem at times that the whole world has gone Web crazy there's no doubt that it's not without good reason. Certainly, for musicians, there are some seriously good advantages to be had. Almost all the major Midi equipment manufacturers including Akai, Roland, Yamaha and so on now have, or are in the process of building, Web sites.

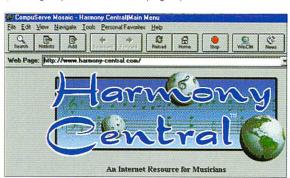
So too are a great many record companies, bands and musicians. In fact the only major company I have not heard express their intentions of getting into the Web scene are the synthesiser manufacturers Korg. I'm sure this situation will change soon enough although luckily there are a great many Korg-related private sites around so users of these synths have little trouble in finding Web material of interest.

One particularly good site for anyone interested in the technical side of music and Midi is the Music Search site which is basically an on-line reference source.

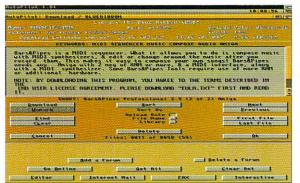
Among other things, you can download the Midi SDS (sample dump standard) from here and there are plenty of references to other educational/technical music sites. The document specifying the official Midi standard, which I've been asked about many times, can be ordered from the Midi Manufacturers Association site (see the addresses box out for locations).

Harmony Central is another good music site that has won a number of awards for its presentation and content. There are areas for guitar, bass equipment, effects, keyboards and synths, computers and music, and of course Midi. In this last section, plenty of useful introductory Midi articles can be found.

Although the majority of music sites offer little by way of Amiga-specific info, there are a few well known exceptions. RBF Software have a support site for OctaMED Pro and Sound Studio users. Another site which may be of interest is Dreamers Guild – the home page of David Joiner (who originally wrote the Music X program). As



Not Amiga specific but Harmony Central is a good example of a well planned music site



Musically minded
Amiga users on
CompuServe can
really pick up a
bargain at the
moment by downloading some of the,
now Microsoft
owned, Blue Ribbon
Midi/music packages

you might expect this too, contains some Music X related material.

MidiCraft have also recently set up a Web site which not only contains info about their various projects but allows you to download various Music X and Midi files, and so on. Since the Craft brothers are very Music X oriented, chances are that this site may eventually end up providing some much needed, general support for Music X users.

And talking of Music X - I've been asked on a couple of occasions lately where Music X protocols, needed for sound bank dumping sysex communication, can be obtained.

There are various sources but MidiCraft have produced protocols for quite a few synths. Collections of these have appeared on Weird Science's Multi Media Tool Kit II CD_ROM, in various issues of the AM/FM disk magazine, and also on PD IV a CD-ROM available from Almathera (tel: 0181 687 0040).

If you haven't got a CD-ROM drive the best idea is to contact Seasoft Computing (tel: 01903 850378) because they have the equivalent collections of Music X protocols available on floppy disk.

Still on the sequencer theme Software Technology, who produce the long established

'Sequencer One Plus' Amiga Midi sequencer package, expect to have a product support site up and running within the next couple of months! Another recently found site which might be of interest was a hardware projects web page that, amongst things, includes details of how to build yourself an Amiga Midi interface.

COMPUSERVE FREEBIES

If, like many people, you felt a little sad when Blue Ribbon Software sold out to Microsoft you might care to know that for some users there is, at least at the moment, an up-side to the scenario.

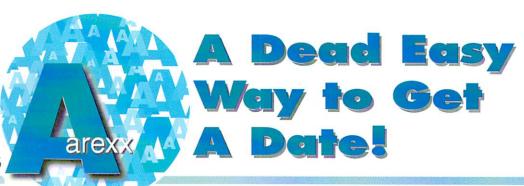
Microsoft, who now own the rights to the Bars&Pipes sequencer, its various add on kits, SuperJAM, PatchMeister (the universal Midi editor/librarian package) and various other Blue Ribbon bits and pieces, have done something rather interesting – they've allowed all this Amiga music software to be put into Compuserve's Blue Ribbon BRS forum library.

Now I don't know whether this collection is available elsewhere but certainly, if you're on Compuserve, you can now get this complete range of Amiga music software (which at one time would have cost you over a grand), absolutely free. Now is that good news or what?

WEB SITE ADDRESSES

Here are just a few of the hundreds of musical Web sites that are now available: http://www.akai.com/akaipro/index.html Dreamers Guild http://www.dreamersquild.com G.N's Korg i-series page http://hgiicm.tu-graz.ac.at/Cpub Hardware Projects http://homepage.cistron.nl/~nctnico/midi.htm Harmony Central http://harmony-central.mit.edu/ http://www.midicraft.demon.co.uk Midi Manufacturers Association http://home.earthlink.net/~mma/ Music Search http://musicsearch.com/ Peavey http://www.peavey.com/ **RBF** Software http://www.octamed.co.uk Roland UK http://www.roland.co.uk Yamaha http://www.yamaha.co.uk/

Paul Overaa discucsses ARexx routines that can be used for performing calendar calculations



f you wanted to know what day the 1st Jan 1997 is going to fall on you could look it up in a calendar. But to find out, for example, the date of every Monday in 1997 (or what the date would be exactly 200 days from now) would be more difficult. You could go through the calendar week by week (or count through 200 pages) but in doing this you would surely suspect that there is a better approach.

Indeed there is and it's based on a method, or rather a convention, that astronomers and scientists have been using now for a great many years. It involves things called Julian Day numbers (JDNs) which essentially label every day since Jan 1st 4713 BC with a number. By using this date as a base point it's possible both to calculate the Julian Day number for a given day AND calculate the date given a specific JDN.

Now for a number of reasons (partly connected with rounding errors which are produced in conventional computer arithmetic) it's not possible to produce a single pair of formulae that will work for all possible dates.

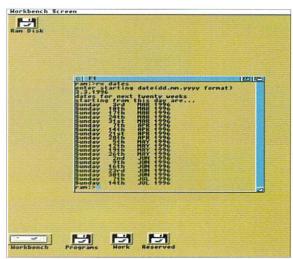
But if we restrict ourselves to a reasonable short time span, say +/- 100 years from now, it's possible to come up with a single pair of formulae which work perfectly well. Using ARexx this is exactly what I've done and you can see the results in Listings 1 and 2. The functions are called GetJdn() and GetDate() and the best thing of all about them - is that they are easy to use.

SOME EXAMPLES

Supposing your birthday is 10th August and you want to know what day it will fall on in 1998. You could write a couple of script lines to input a date, use the ARexx parse instruction to split it up into separate day, month and year values, and then finally calculate the JDN and display the equivalent date. In short these five lines would do the job:

```
say 'give me your birthday in dd.mm.yyyy format'
pull birthday
parse var birthday d'.'m'.'y
jdn=GetJdn(d,m,y); say GetDate(jdn)
```

and the output would tell you that your birthday is going to fall on Monday 10th August 1998. Similarly, if you wanted to know what the date was going to be 200 days after the 24th June 1996 you could use these script lines...



The date routines in action with the example program!

```
jdn=GetJdn(24,6,1996)
jdn=jdn+200
say GetDate(jdn)
```

To find the date of every Wednesday in the year on the other hand you could enter a date for the first Wednesday and then use a loop like this to display all the rest by successively adding 7s to the JDN value:

```
i=0; jdn=GetJdn(d,m,y)
do i=0 to 51
say GetDate(jdn+i*7)
end
```

You'll find an example on the cover disk that asks you for a date and then displays the dates of that day of the week for the next 20 weeks. It is however, just an example and the best idea is to try the functions in your own programs.

All you need to do is write your script (making sure you terminate the code with an EXIT statement) and then copy the code for my two functions onto the end of it. From that point on you'll be able to use the GetJdn() and GetDate() functions in anyway you like. The only thing you must be careful of is not to pass the routines an invalid date because they do not make any checks on the dates passed to them.

Listing 1: The function which computes the Julian Day number from a date

```
GetDate: Procedure
                                                             day_name_suffix.2='nd'
BIAS=.000000001
                                                             day_name_suffix.3='rd'
month_name.1 =' JAN'
                                                            day_name_suffix.21='st'
month_name.2 =' FEB'
                                                            day_name_suffix.22='nd'
month_name.3 =' MAR'
                                                            day_name_suffix.23='rd'
month_name.4 =' APR'
                                                            day_name_suffix.31='st'
month_name.5 =' MAY'
                                                            parse arg jdn
month_name.6 =' JUN'
                                                                      day#=jdn-1720982
month_name.7 =' JUL'
                                                             ydash=(((day#-122.1)/365.25)+BIAS)%1
month_name.8 =' AUG'
                                                                      mdash=(((day#-((365.25*ydash)+BIAS)%1),
month_name.9 = ' SEP'
                                                                      /30.6001)+BIAS)%1
month_name.10=' OCT'
                                                                      d=day#-(365.25*ydash+BIAS)%1,
month_name.11=' NOV'
                                                                      -(((30.6001*mdash)+BIAS)%1)
month_name.12=' DEC'
                                                                      if mdash=14 | mdash=15 then m=mdash-13
day_name.O='Sunday'
                                                                      if mdash<14 then m=mdash-1
day_name.1='Monday'
                                                                      if m>2 then y=ydash
day_name.2='Tuesday'
                                                                      if m=1 | m=2 then y=ydash+1
day_name.3='Wednesday'
                                                                      day_number=(7*((day#+5)/7,
day_name.4='Thursday'
day_name.5='Friday'
                                                                      +BIAS-(((day#+5)/7),
day_name.6='Saturday'
                                                                      +BIAS)%1))%1
day_name_suffix.='th'
                                                             return(day name.day number,
                                                            Right(d||day_name_suffix.d,5), Right(month_name.m,5) y)
day_name_suffix.1='st'
```

Listing 2: This function produces a date from a Julian Day number

E-U-WA

Attention Dealers

Ring/Fax Now for best trade prices and terms on Repairs, Spares, Floppy Drives, Hard Drives, CD Rom Drives and Memory Upgrades.

- FAST TURN AROUND.
- 90 DAYS WARRANTY ON ALL REPAIRS.
- £10 EXTRA CHARGE FOR WHILE-U-WAIT SERVICE
- COURIER CHARGES £7.05 + VAT EACH WAY
 - A1500/A2000/A3000/A4000 EQUOTATION

MODEMS

BABT APPROVED + NCOMM SOFTWARE

APOLLO ACCELERATORS

1230/50£159.95 1240/25£229.95 1240/40£299.95

A500, A500+ & A600

A1200

HARD DRIVES

FOR A600/A1200

00 120Mb.....£75.00 250Mb...£105.00 54 00 170Mb.....£90.00 420Mb....£129.95 10 All hard drives are pre-formatted, partitioned with Workbench loaded, and include 2.5" IDE cable + software 60Mb....£55.00 540Mb....£149.95 80Mb.....£65.00 1GIG......£199.95

2.5" IDE Cable and Software (if bought separately).

540Mb	£115.00	1.08GIG	£150.00
850Mb	£130.00	2.1GIG	£235.00

Upgrade to 2 Meg

UNBEATABLE

PRICES

A600

£19.95

Upgrade to 2 Meg

4Mb 8Mb £75.00 £95.00

ANTEE WE DAY 33MHz FPU + Crystal £39.95

PEED CD ROM DRIVES INCLUDING

SQUIRREL INTERFACE

L1500£169.95 L2000S6349.95

A600/A1200£34.95

CHIPS * SPARES * ACCESSORI

1 Meg Fatter Agnus£19.	00 8520 CIA A600/A1200£14.50
2 Meg Fatter Agnus£24.	00 8374 Alice A1200£30.00
8362 Denise£9.	00 8364 Paula A600/A1200£16.50
8373 Super Denise£18.	00 Video DAC A1200£19.00
5719 Gary£7.	60 A600/A1200 Keyboard£60.00
8520 CIA A500/A500+£15.	00 Lisa A1200£35.00
8364 Paula A500/A500+£12.	00 Gayle A600/A1200£25.00
Kickstart ROM V1.3£15.	00 Budgie A1200£30.00
Kickstart ROM V2.04£22.	00 Mouse (290dpi)£15.00
Kickstart ROM V2.05£29.0	OO SCART Lead £15.00
A500/A500+ Keyboard£50.	00 Mouse Mat£4.00
6570 Keyboard Chip£20.	00 10 boxed branded disks£6.00
68000 Processor £8.0	00 Printer Cable £6.00
Power Supply for A500/A600/A1200£35.0	Surf Squirrel £95.00
Exchange AΩ000/A1500 Power supply£80.0 * All chips are available ex-stock * Please	



A1200 without Hard Drive.....£299.95 A1200 with 80Mb Hard Drive...£349.95 A1200 with 170Mb Hard Drive.£379.95

A1200 with 340Mb Hard Drive.£429.95 A1200 with 510Mb Hard Drive.£499.95 * Call for more good deals

Analogic Computers (UK) Ltd Unit 6, Ashway Centre, Elm Crescent Kingston Upon Thames, Surrey KT2 6HH

Open Mon-Fri 8.00am - 5.30pm, Sat 9.00am - 5.00pm Fax: 0181



★ We reserve the right to refuse any repair ★ P&P charges £3.50 by Royal Mail or £6.00 + VAT for courier ★ Please allow 5 working days for cheque clearance





All sales/repairs are only as per our terms and conditions, copy available on request.

Dave Cusick investigates the legal battle which could change the Web



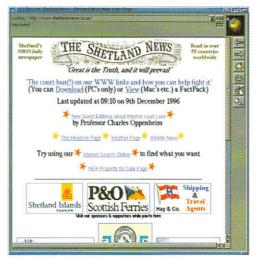
Web War

y now the majority of Internet users will probably have heard about the events in the Shetlands which are threatening to undermine the entire World Wide Web. The legal wranglings between the Shetland News and the Shetland Times could have severe repercussions.

For the benefit of those who have still to learn the details, the problems began when the Shetland News, an Internet-only publication, included links to the Shetland Times news pages using headlines from the latter for the hypertext links. Robert Wishart, the managing director of the Times, objected to the links and sued, saying they were in effect an infringement of copyright. On October 24, 1996, Wishart obtained an interim injunction at the Court of Session in Edinburgh, preventing the News from quoting Times headlines or linking to the Times site. The full court hearing may well be several months from now.

Of course, Jonathan Wills, news editor of the year-old Shetland News, has claimed that this use of links is perfectly legitimate. Interestingly, Wills used to be the editor of the Shetland Times, which is primarily a print-based publication, until he was sacked. He later proved unfair dismissal and won substantial damages. Wills is not Wishart's biggest fan, a fact which becomes immediately apparent when reading the former's profile of the latter on the Shetland News site.

Wills has argued that no attempt was ever made to claim the articles were not the work of Shetland Times staff, and that in fact the links increased the Times web site readership around threefold. He says that Wishart does not understand the nature of the Web, and that if litigation is successful the Web could be plunged into a state of chaos, becoming totally unnavigable because directories would effectively be illegal. In an on-line statement on the Shetland News site Wills calls Wishart's action "an unprecedented attempt to block free access to the Internet." He now has the backing of the National Union of Journalists, as well



The excellent Internet-only Shetland News...



...and its print-based rival

as considerable support amongst legal commentators and the Internet community.

Wishart, on the other hand, maintained in a statement to BBC legal correspondent Joshua Rozenberg that the action is "solely to protect our company and its employees from a parasitic activity which, allowed to run unchecked, would make it impossible for publishers to reap the rewards of their efforts and destroy the principle of copyright on any material published on the Internet."

The "rewards of their efforts" Wishart refers to are discussed in Lord Hamilton's judgement granting the interim injunction. Essentially Wishart is claiming that the Shetland Times is losing potential advertising revenue which might be obtained by selling space on its front web page, because people are leaping straight to their news stories from the Shetland News site.

Clearly, Wishart's argument raises some valid points. Would accepting his point of view really render the whole Internet illegal, as Wills claims? Links to pages within other sites might be found to be unacceptable, but it

does not necessarily follow that links to front pages of other publications would be forbidden.

Similarly, with permission to link to a page (which would be implicitly granted in the reciprocal link arrangements often made by Web page authors) it would be perfectly permissible to do so. Yahoo would apparently be safe, given that it is an index of front pages which are usually only linked to when nominated by their creators. Unfortunately, crawlers like Alta Vista would indeed appear illegal. Anxious eyes all around the world will be focused on the proceedings when they finally get underway.

Incidentally, to cover my own back and avoid any possible legal ramifications, I'd just like to point out that the sources used for this article include the Shetland News site (http://www.shetland-news.co.uk), the Shetland Times site (http://www.shetland-times.co.uk) and the NUJ homepage (http://gnew.gn.apc.org/media/nuj.html), and the stuff I've quoted all comes from official press releases. Please don't sue me, Mr Wishart; I wasn't infringing copyright, I was merely doing my journalistic job.

OTHER NEWS

The forthcoming Shareware front end Konnection will apparently be based around a server that performs network tasks from ARexx commands sent to it. This means that a third-party GUI could be implemented and Konnection commands could be included in, for instance, AmIRC scripts. It all sounds intriguing - and you'll read the review here first, of course.

Demon Internet is now offering free Realaudio streaming for its customers' homepages as part of its tenner-a-month (plus VAT) service. Amiga-based software cannot handle Realaudio encoding or decoding, but using a PC or Macintosh emulator it's now possible to make your home page sonically as well as visually impressive.

CONTACT

If you wish to contact me, my e-mail address is dave@dcus.demon.co.uk. Questions, suggestions and feedback are all more than welcome. I also have a homepage, which can be found at http://www.dcus.demon.co.uk/.

Casablanca Digital Video Editing And Post Production



Outstanding Picture Quality Fast as Lightning **Professional Effects Affordable and Compact CD Quality Sound** Simple to Use, but Powerful







What Is The Casablanca?

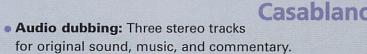
Casablanca is a device which allows anyone to edit video, simply, and in a non-linear fashion. It works by recording video scenes from a camcorder, on to a hard disk. The shots can then be re-arranged at will, and can have professional effects, and soundtracks added.

So, How Does It Work?

Using Casablanca does not require any computer experience. The controls and displays are clear, simple to use, and easy to understand.

After the device is connected and switched on, a selection menu is immediately displayed, with all the necessary steps for nonlinear video and audio editing. The options are as follows :-

- Settings: For language & video quality level.
- Record: Copies video to the internal hard drive.
- Trim: To set your required in and out points.
- Insert: Move your trimmed scenes into the storyboard to create the playback order.
- Transitions: Select and define your effects. Effect previews are shown in real-time.
- Image Processing: Make your video negative, brighter, darker, or change colours.
- Titling: Here text can be added to your video. It can scroll in many ways for custom designs.



• Finalise: Copies your completed work to tape, either digital (via optional FireWire) or analog (VHS, S-VHS, Hi8 or via component RGB).

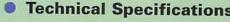
The included trackball which is used to control Casablanca can be replaced with a PC type mouse, and if video titling is a frequently used option, a PC type keyboard can be used.

The hard drive inside the Casablanca is removable and only the video and audio data are stored on the drive. If longer video segments need to be recorded, an external system can be added, containing up to three additional drives.

The system instructions and software are stored entirely on floppy disk, allowing you to update software features and add optional effects without opening the case.

Technical Specifications

Full Motion JPEG Compression, CCIR601 Resolution (720x576 Pixels)



Internal Drive Capacity from 1 to 9Gb, external expansion up to 27Gb 0.5 to 3.5Mb/sec video data transfer rate with variable bitrate control 4.8 to 33 Mins Recording per Gb, allowing maximum 2.2 to 15 hours Composite & Y/C Video in and out, Optional FireWire (MiniDV, P1394) 3 Tracks of Stereo Audio, 16-Bit resolution at upto 48KHz sample rate

SPECIALIST VIDEO RETAILERS ALSO REQUIRED FOR CASABLANCA

Manufactured By:

Authorised Main Retailer:

White Knight Technology

Phone: 01920 822 321 Fax: 01920 822 302



Exclusive U.K. Trade Distributor:

DraCo Systems UK Limited P.O. Box 38, Ware, Herts., SG11 1TX. Phone: 01920 822 244 Fax: 01920 822 302

From £ 1,799 (2Gb) To £ 3,249 (9Gb AV) inc. VAT

HISOft SYSTEMS

NEW LOW PRICES

W	IBrowse V1.10 (with frame sup	port) £29.95
	Net&Web	£39.95
	Net&Web 2	£69.95
	Termite	£39.95
	TermiteTCP	£39.95
V	Cinema4D V3	£199.95
	Studio II Professional	£49.95
N	Disk Magic 2	£39.95
	Maxon Magic	£29.95
V		
	Upper Disk Tools	£14.95
V	HiSoft C++	£169.95
N	HiSoft C++ Lite	£79.95
	Devpac 3	
	HighSpeed Pascal	£79.95
	HiSoft BASIC 2	
	Gamesmith	£79.95
N	IIII De De detabase iiiiiiiiiii	
	ProFlight Simulator	£19.95
	Aura 8	
	Aura 16	£99.95
	Clarity 16	£129.95
	ProMidi Interface	
	Megalosound	£34.95
	VideoMaster	£69.95
	VideoMaster RGB	
	VideoMaster AGA	£79.95
	VideoMaster AGA RGB	£129.95
	ColourMaster	£69.95
	Zip Drive (inc all extras)	£159.00
	Jaz Drive (cased)	£449.00
	CLUB ACCULOTE L. I.	

SMD-100 MPEG decoder .. £199.95

4x CD-ROM Drive (cased) £129.95 12x CD-ROM Drive (cased) ... £229.95

NEV

NEV

NEV

NEV

1997 HiSoft Systems.

SUY A CLASSIC SQUIRREL FOR JUST £49.95 WHEN YOU ORDER A ZIP OR CD-ROM DRIVE

INCLUDES £30 OF EXTR
HISOft's Amiga Zip Tools Software
25-50 way SCSI lead converter
One FREE zip cartridge

NO HIDDEN EXTRAS

NO HIDDEN EXTRAS

ONE MEGABYTE OF REMOVEABLE STORAGE

ON ONE CARTRIDGE

ALL MAJOR CREDIT CARDS ACCEPTED

POSTAGE £2, COURIER £4 (NEXT DAY £6) (ZIP, JAZ, SMD-100 & CD-ROM DRIVES BY COURIER ONLY)

> HiSoft Systems The Old School Greenfield Bedford MK45 5DE

Phone 01525 718181 Fax 01525 713716 Email sales@hisoft.co.uk QUAD SPEED CD-ROM DRIVE

INCLUDES £30 OF EXTRAS

High quality external case Power supply and lead SCSI lead One FREE CD-ROM

NO HIDDEN EXTRAS

CALL 0500 223 660 FREE